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TITLE 326 AIR POLLUTION CONTROL BOARD

Proposed Rule
LSA Document #01-407

DIGEST

Amends 326 IAC 6-1-10.1 and 326 IAC 6-1-10.2 concerning U.S. Steel particulate matter emission limits. Effective 30 days after filing with the secretary of state.

HISTORY

First Notice of Comment Period: December 1, 2001, Indiana Register (25 IR 943).
Second Notice of Comment Period and Notice of First Hearing: July 1, 2002, Indiana Register (25 IR 3465).
Change in Notice of First Hearing: August 1, 2002, Indiana Register (25 IR 3805).
Change in Notice of First Hearing: September 1, 2002, Indiana Register (25 IR 4129).
Date of First Hearing: November 6, 2002.
Continuation of First Hearing: December 4, 2002.
Continuation of First Hearing: February 5, 2003.

PUBLIC COMMENTS UNDER IC 13-14-9-4.5

IC 13-14-9-4.5 states that a board may not adopt a rule under IC 13-14-9 that is substantively different from the draft rule published under IC 13-14-9-4, until the board has conducted a third comment period that is at least twenty-one (21) days long.

REQUEST FOR PUBLIC COMMENTS

Portions of this proposed rule are substantively different from the draft rule published on July 1, 2002, at 25 IR 3465. The Indiana Department of Environmental Management (IDEM) is requesting comment on the following portions of the proposed (preliminarily adopted) rule that are substantively different from the language contained in the draft rule.

The emissions limits for U.S. Steel-Gary Works in 326 IAC 6-1-10.1 of the proposed rule are substantively different from the draft rule.

This notice requests the submission of comments on the section of the rule listed above, including suggestions for specific amendments to those sections. These comments and the department's responses thereto will be presented to the board for its consideration at final adoption under IC 13-14-9-6. Comments on additional sections of the proposed rule that the commentor believes are substantively different from the draft rule may also be submitted for the consideration of the board. Mailed comments should be addressed to:

#01-407 U.S. Steel PM_{10} Rule
Chris Pedersen
c/o Administrative Assistant
Rule Development Section
Office of Air Quality
Indiana Department of Environmental Management
P.O. Box 6015
Indianapolis, Indiana 46206-6015.

Hand delivered comments will be accepted by the receptionist on duty at the Office of Air Quality, Tenth Floor East, 100 North Senate Avenue, Indianapolis, Indiana. Comments may also be submitted by facsimile to (317) 233-2342, Monday through Friday, between 8:15 a.m. and 4:45 p.m. Please confirm the timely receipt of faxed comments by calling the Rule Development Section at (317) 233-0426.

COMMENT PERIOD DEADLINE

Comments in any form must be postmarked, hand delivered, or faxed by March 24, 2003.

SUMMARY/RESPONSE TO COMMENTS FROM THE SECOND COMMENT PERIOD

IDEM requested public comment from July 1, 2002, through July 31, 2002, on IDEM's draft rule language. IDEM received comments from the following parties:

U.S. Steel-Gary Works, (USS)

Following is a summary of the comments received and IDEM's responses thereto:

Comment: U.S. Steel did not receive IDEM's daily background concentration estimates until July 20 and so could not complete air dispersion modeling, evaluate the impacts on plant operations, and finalize the limitations revision request before the end of this comment period. U.S. Steel notes that the daily background concentration estimates provided by IDEM are elevated and range up to twenty percent of the national ambient air quality standards. U.S. Steel would like to understand IDEM's methodology and assumptions in developing estimated background concentrations that result in such significant concentrations prior to U.S. Steel completing further air dispersion modeling. Therefore, U.S. Steel cannot provide complete comments on specific limitations incorporated in the Second Notice. U.S. Steel would like to meet with IDEM staff to discuss further air dispersion modeling, including estimated background concentrations, and establishing PM_{10} limitations that are acceptable to both IDEM and U.S. Steel. (USS)

Response: IDEM and U. S. Steel discussed the modeling issues and U. S. Steel completed and submitted air dispersion modeling to IDEM. The results of these efforts are reflected in the draft rule presented to the board for preliminary adoption.

Comment: In 326 IAC 6-1-10.1(d)(36), the following limits should be modified to reflect the PM_{10} emission limitations currently in effect as the result of Agreed Orders with IDEM.

Source	Emission Limit (units)	Emission Limit (lbs/hr)
Coke battery #2 precarbonization system electrostatic precipitators	**Not applicable**	**62.5 (total)**
Coke battery #3 precarbonization system electrostatic precipitators	**Not applicable**	**62.5 (total)**

(USS)

Response: IDEM concurs based on the results of the modeling effort and has made the suggested change.

Comment: In 326 IAC 6-1-10.1(d)(36), the following limits should be modified to reflect a limitation that allows the greater use of byproduct fuels than is represented by the limitation in the Second Notice. The requested limit is a decrease from the limit in the current rule.

Source	Emission Limit (units)	Emission Limit (lbs/hr)
84″ Hot Strip Mill (HSM) reheat furnace Nos. 1, 2, 3, and 4	**0.012 lb/MMBTU**	**27.85 (total)**

(USS)

Response: The emission limits of 0.017 lbs/MMBtu and 40.80 (total) lbs/hr were used in response to modeling data submitted by U. S. Steel after this comment was received. Though these limits are higher than the current rule, the modeling shows no impact on air quality due to reductions in other units.

Comment: In 326 IAC 6-1-10.1(d)(36), the following limits should be modified to reflect limitations that are currently part of a variance from the current Rule granted to U.S. Steel.

Source	Emission Limit (units)	Emission Limit (lbs/hr)
Coke battery number 5 underfiring stack	**Not applicable**	**24.70**
Coke battery number 7 underfiring stack	**Not applicable**	**21.30**
Coke plant boiler house, boiler number 8	**0.012 lb/MMBTU**	**2.89**

(USS)

Response: IDEM concurs and has made these changes.

Comment: In 326 IAC 6-1-10.1(d)(36), limitations for coke battery number 2/3 quench tower numbers 1, 2/3, and 5/6 were not included in the current rule or variance from the rule because the physical construction of these towers precludes stack testing using standard approved testing methods. Consequently, compliance with numerical limitations cannot be demonstrated so numerical limitations for the quench towers should not be included in the revised rule. (USS)

Response: IDEM concurs and has removed these units from the draft rule.

Comment: In 326 IAC 6-1-10.1(d)(36), the following unit should be added to reflect a recently issued Part 70 permit modification allowing the construction and operation of the unit.

Source	Emission Limit (units)	Emission Limit (lbs/hr)
Coke plant boiler house lime storage silo baghouse stack	**0.030 gr/dscf**	**0.28**

(USS)

Response: IDEM concurs based on the results of the modeling effort and has added this unit and emission limits.

Comment: In 326 IAC 6-1-10.1(d)(36), limitations for the following groupings of units should have the notation "(total)" in the lbs/hr column:

Coke battery #2 precarbonization system electrostatic precipitators
Coke battery #3 precarbonization system electrostatic precipitators
Number 3 sinter plant coolers
Number 3 sinter plant discharge area baghouses
Number 3 sinter plant windbox stacks
Number 4 boiler house boilers
Plate mill batch reheat furnaces nos. 6 and 8
Plate mill continuous reheat furnaces 1 and 2
84″ HSM reheat furnaces nos. 1, 2, 3, and 4
Coke plant boiler house, boiler numbers 1 and 2
Number 1 BOP gas cleaning system
Number 2 Q-BOP gas cleaning system
TBBH boiler numbers 1, 2, 3, and 5
EGL boiler house

(USS)

Response: IDEM concurs and has made the suggested changes.

Comment: The text of 326 IAC 6-1-10.1(f)(5)(C) should be changed as follows to reflect the limit for the sinter plant windbox stacks as the result of the Agreed Orders with IDEM:

(C) The first four (4) impingers shall be used to determine the quantity of condensible particulate emissions. Compliance shall be achieved if the sum of the front half and the back half is less than or equal to the mass emission limit of ~~one hundred sixty-seven and one-tenth (167.1)~~ **one hundred (100)** lbs/hr **per stack,** and the front half catch is less than or equal to the mass concentration limit of ~~sixty-five thousandths (0.065)~~ **twenty-thousandths (0.020)** gr/dscf in subsection (d).

(USS)

Response: IDEM concurs and has made the suggested change.

Comment: U.S. Steel has been granted a variance from 326 IAC 6-1-10.1(g)(3) by performing stack testing. The variance should be made permanent by eliminating this provision from the rule. (USS)

Response: Alternative monitoring requirements on the precarbonization system were conveyed to U. S. Steel in a letter dated May 16, 1997. However, the waiver from installing and operating COMs as required in 326 IAC 6-1-10.1(g)(3) can be withdrawn if a method of monitoring technology or operation changes make the operation of COMs feasible. Therefore, IDEM believes the language in this provision should remain in the rule.

IDEM encourages further discussion on this issue and will consider revisions to the language to reflect the conditions in the waiver under which U. S. Steel is currently operating.

Comment: The limits for certain units in 326 IAC 6-1-10.1(h)(20) include restrictions that they combust natural gas only. Because all combustion units are already listed in 326 IAC 6-1-10.1(d)(36) with appropriate limitations, this provision should be deleted. (USS)

Response: IDEM concurs and has made the suggested change.

Comment: Provisions in 326 IAC 6-1-10.1(k)(8)(A) through (D), (I), and (J) contain compliance deadlines that have passed. U.S. Steel has complied with the requirements, so these provisions are no longer needed and should be deleted. (USS)

Response: IDEM concurs and has made the suggested change.

Comment: Air dispersion modeling for the current rule was based on the restrictions in 326 IAC 6-1-10.1(k)(8)(E), (F), and (G). The air dispersion modeling used for the new limitations proposed in the Second Notice are not based on the restrictions in these three provisions, therefore, these three provisions should be deleted. (USS)

Response: IDEM concurs and has made the suggested change.

Comment: The requirement in 326 IAC 6-1-10.1(k)(8)(H) for a 90-day notice before switching fuels from gas to coal at Coke Plant Boiler House Boiler Numbers 4, 5, and 6 is not needed. U.S. Steel has no plans to convert these boilers from gas to coal in the foreseeable future, and such fuel switching would require permit modification approval by IDEM prior to making such a modification. Therefore, the notification requirement in this provision is redundant and unnecessary and should be deleted. (USS)

Response: IDEM concurs and has made the suggested change.

SUMMARY/RESPONSE TO COMMENTS RECEIVED AT THE FIRST PUBLIC HEARING

On February 5, 2003, the air pollution control board (board) conducted the first public hearing/board meeting concerning the

development of amendments to 326 IAC 6-1-10.1 and 326 IAC 6-1-10.2. Comments were made by the following parties:
U.S. Steel-Gary Works (USS)
Following is a summary of the comments received and IDEM's responses thereto:
Comment: U.S. Steel-Gary Works supports adoption of this draft rule.
Response: IDEM concurs.

326 IAC 6-1-10.1
326 IAC 6-1-10.2

SECTION 1. 326 IAC 6-1-10.1, AS AMENDED AT 25 IR 4077, SECTION 1, IS AMENDED TO READ AS FOLLOWS:

326 IAC 6-1-10.1 Lake County PM_{10} emission requirements
Authority: IC 13-14-8; IC 13-17-3-4; IC 13-17-3-11
Affected: IC 13-15; IC 13-17

Sec. 10.1. (a) This section applies to the sources, facilities, and operations listed in subsection (d).

(b) The following definitions apply throughout this section:
(1) "lbs/hr" means pounds of particulate matter emissions emitted per one (1) sixty (60) minute period.
(2) "lbs/MMBtu" means pounds of particulate matter emissions per million British thermal units heat input of fuels fired in the source, unless otherwise stated.
(3) "lbs/ton" means pounds of particulate matter emissions per ton of product output from the particular facility, unless otherwise stated. Byproducts that may be sold as product shall not be included under the term "product".
(4) "gr/dscf" means grains of particulate matter per dry standard cubic foot of exhaust air.

(c) All emission limits in this section shall be PM_{10} limits, unless otherwise stated.

(d) The following sources shall comply with the corresponding PM_{10} and total suspended particulates (TSP) emission limitations and other requirements in this section consistent with the provisions as applicable in subsection (k). Each emission limit applies to one (1) stack serving one (1) facility unless otherwise noted. The emission limitations apply:
(1) to one (1) stack serving the multiple units specified when the facility description notes "stack serving"; and
(2) to each stack of multiple stacks serving multiple facilities when the facility description notes "each stack serving".

Source	Emission Limit (Units)	Emission Limit (lbs/hr)
(1) JUPITER ALUMINUM CORPORATION		
Reverberatory furnace number 1	0.060 lbs/ton	0.970
Reverberatory furnace number 2	0.142 lbs/ton	0.430
Reverberatory furnace number 3	0.145 lbs/ton	0.510
Reverberatory furnace number 4	0.145 lbs/ton	0.510
Reverberatory furnace number 5	0.130 lbs/ton	1.137

(2) SILGAN CONTAINERS MANUFACTURING CORPORATION			
Stack serving incinerators (3 units)		0.007 lbs/MMBtu	0.310
Coil coater		0.007 lbs/MMBtu	0.290
(3) CERESTAR USA, INC.	Stack Number	lbs/hr	gr/dscf
Stack serving boiler numbers 6 and 7	10-03-U-P and 10-04-U-P	30.3	
Stack serving boiler numbers 8 and 10	10-05-U-P and 10-06-U-P	22.7	
Activated carbon regenerating furnace	15G-01-R-F	0.34	0.01
Bulk carbon/bulk filter aid system	17-03-R-P	0.06	0.01
Corn syrup solids dust collection system number 2	18-03-R-P	0.30	0.01
Special starch (P. G.) manufacturing equipment system number 1	18-06-S-P	0.17	0.01
Special starch (P. G.) manufacturing equipment system number 2	18-07-S-P	0.084	0.01
Special starch (P. G.) manufacturing equipment system number 3C (½ system number 3)	18-08-S-P	0.12	0.01
Special starch (P. G.) manufacturing equipment system number 3D (½ system number 3)	18-09-S-P	0.12	0.01
Gluten ring dryer #1	19-03-G-P	4.76	0.015
Receiver for first stage germ dryer	21A-01-G-P	0.12	0.015
First stage germ dryer exhaust	21A-02-G-P	0.67	0.01
Equipment conveying corn dirt to dirt storage silo	30-16-G-P	0.06	0.01
Waxy feed conveyor system	31-02-G	0.27	0.01
Finished gluten conveying system (Tank 2 or 3)	31-10-G-P or 31-11-G-P	0.19	0.02
Gluten receiver	31-13-G (3/95)	0.23	0.02
Germ storage silo	31-14-G (10/95)	0.097	0.01
Corn receiving and storage-bin vent #5	33-01-G (12/95)	0.171	0.02
Corn receiving and storage-bin vent #6	33-02-G (12/95)	0.171	0.02
Corn cleaner	33-03-G (12/95)	0.21	0.01
Dextrin incoming starch, building 34	34-01-S-P	0.04	0.01
Dextrin starch reactor #1	34-02-S-P	0.180	0.01
Dextrin starch cooler #1	34-03-S-P	0.042	0.01
Dextrin storage hopper, building 34	34-05-S-P	0.11	0.01
Dextrin feed hoppers: 1 and 2 (System 1) Dextrin air lock feeder	34-06-S and 34-07-S (12/92)	0.030	0.01
Dextrin starch cooler	34B-01-S (10/93)	0.042	0.01
Dextrin storage hopper	34B-03-S (10/93)	0.114	0.01
Dextrin starch reactor #2	34B-04-S (10/93)	0.179	0.01
Dextrin feed hoppers: 3 and 4 (System 2) #1 and #2 Dextrin air lock feeder	34B-05-S and 34B-06-S (10/93)	0.030	0.01
Dextrin incoming starch batch scale hopper No. 2	34B-13-S (10/93)	0.067	0.01
Feed receiver	35-05-G	0.568	0.01
Dextrin bulk loading equipment	48-09-S-P	0.26	0.01
Receiver for second stage germ dryer	51A-01-G-P	0.19	0.02
Second stage germ dryer exhaust	51A-02-G-P	1.01	0.015
Sulfate bag dumping	52-02-S-P	0.20	0.01
Starch milling system number 1	59-01-S-P	0.43	0.01
Starch milling system number 2	59-02-S-P	0.43	0.01
Starch ring dryer number 2	59-03-S-P	3.50	0.006
Stack serving starch bulk loading equipment (receiver)	76-02-S-P	0.17	0.01

Stack serving starch bulk loading equipment (Railcar loading)	76-03-S-P	0.17	0.01
Stack serving special starch (P.G.) manufacturing equipment system	85-01-S-P	0.24	0.01
Fiber drying equipment	89-01-G (10/95)	4.50	0.01
Wet fiber cyclone receiver	89-02-G (10/95)	0.178	0.01
Rotary feed dryer	89-03-G (10/95)	4.5	0.03
Milled feed hopper	89-04-G (10/95)	0.50	0.01
Feed pelletizing B	91-14-G-P	2.10	0.015
Feed pelletizing C	91-15-G-P	2.10	0.015
Feed pelletizing D	91-16-G-P	0.23	0.01
Starch conveying system number 46	93-01-W-P	0.17	0.01
Starch conveying system 47	93-02-W-P	0.17	0.02
Dextrin conveying system 48	93-03-W-P	0.17	0.01
Dried corn syrup conveying system, frodex	93-04-W-P	0.069	0.01
Corn syrup solids conveyor equipment	93-05-W-P	0.066	0.01
Stack serving starch packing systems number 1 and 2, building 93 (43 and 44)	93-06-W-P and 93-07-W-P	0.23	0.01
Frodex semibulk packing system, building 93	93-08-W-P	0.083	0.01
Each stack serving bag dump numbers 1 and 2	93-09-W-P and 93-10-W-P	0.10	0.01
Starch bulk loading	93-14-W (2/93)	0.273	0.01
Starch vacuum clean-up system	93-15-W (2/93)	0.021	0.01
Starch mixing and bagging system #1	93-16-W (5/95)	0.130	0.01
Starch mixing and bagging system #2	93-17-W (5/95)	0.264	0.01
New corn syrup spray dryer cooler system number 3 (SIP #2)	100-01-R-P	4.96	0.015
#4 corn syrup spray dryer	100-03-R (93)	4.2	0.01
Carbon regeneration furnace #2	104-01-R (2/96)	0.728	0.015
Soda ash tank	104-02-R (2/96)	0.154	0.02
Filter aid hopper	104-03-R (2/96)	0.044	0.02
Sodium bisulfate bag dump	104-05-R (2/96)	0.080	0.02
Each stack serving bulk corn starch storage bin numbers 20 through 36 (five (5) stacks may operate at one time)	120-01-S-P to 120-17-S-P	0.56	0.01
Gluten dryer system	121-01-G (3/95)	3.0	0.03
Waxy feed drum dryer scrubber	124-01-G-P	11.12	0.03
Waxy feed milling equipment	124-22-G-P	0.051	0.01
Germ dryer/cooler	124A-01-G (11/94)	1.852	0.02
Starch ring dryer number 3	125-01-S-P	3.50	0.006
Waxy bulk cornstarch storage bins numbers 95 through 98 (only one (1) may operate at a time)	126-01-S-P to 126-04-S-P	0.16	0.01
BCD dryer, building 127	127-01-B-P	0.57	0.01
#1 and #2 vacuum cleaner system	127-21-B and 127-22-B (5/93)	0.031	0.01
#1 and #2 BCD storage hopper	127-23-B and 127-24-B (5/93)	0.18	0.01
BCD mill feeder hopper	127-25-B (5/93)	0.028	0.01
BCD packing hopper	127-26-B (5/93)	0.005	0.01
Special starch process with starch dryer number 4, building 128	128-01-S-P	3.5	0.01
Four products blending systems, building 93	130-01-S-P to 130-04-S-P	0.42	0.01
Dextrin blender	130-05-S (7/93)	0.248	0.01

Corn receiving and storage-bin vent #1 and #2	140-01-G and 140-02-G (12/95)	0.343	0.02
Corn receiving and storage-bin vent #3 and #4	140-03-G and 140-04-G (12/95)	0.343	0.02
Corn dump pit	140-05-G (12/95)	1.286	0.01
Corn scale system	140-06-G (12/95)	0.154	0.01
Corn elevator conveying	140-07-G (12/95)	0.086	0.01

	Emission Limit (Units)	Emission Limit (lbs/hr)
(4) AMERICAN STEEL FOUNDRIES–EAST CHICAGO		
Sand kiln and cooler	0.636 lbs/ton	16.29
Sandheater mixing	0.520 lbs/ton	11.44
Electric induction furnaces (2 units)	0.104 lbs/ton	1.248
#2 tumblast with dust collector	0.145 lbs/ton of product	0.678
#3 tumblast with dust collector	0.145 lbs/ton of product	0.678
Shakeout dust collector	0.012 lbs/ton of product	0.384
(5) AMERICAN STEEL FOUNDRY–HAMMOND		
Stack serving coil spring grinder numbers 3-0386 and 3-0389	1.083 lbs/ton	0.045
Stack serving coil spring grinder number 3-0244	0.021 lbs/ton	0.040
Tub grinder number 3-0388	0.015 lbs/ton	2.00
Coil spring grinder number 3-0247	0.019 lbs/ton	0.03
Coil spring grinder number 3-0249	3.792 lbs/ton	1.82
Coil spring grinders numbers 3-0385, 3-295, and 3-0233	0.019 lbs/ton	0.05
Shot blast peener number 3-1804	0.011 lbs/ton	0.06
Shot blast peener number 3-1811	0.018 lbs/ton	0.06
Shot blast peener number 3-1821	0.016 lbs/ton	0.06
Shot blast peener number 3-1823	0.016 lbs/ton	0.06
Small coil manufacturing (ESP number 3-3024)	0.014 lbs/ton	0.02
Medium coil manufacturing (ESP number 3-3027)	0.700 lbs/ton	2.10
Large coil manufacturing (ESP number 3-3028)	0.700 lbs/ton	3.50
Miscellaneous coil manufacturing (ESP number 3-3026)	0.700 lbs/ton	1.05
(6) BP PRODUCTS NORTH AMERICA INC.		
Number 1 CRU, F-101 feed preheater	0.004 lbs/MMBtu	0.267
Stack serving number 1 CRU, F-102, F-201, F-202 heaters	0.004 lbs/MMBtu	0.290
Stack serving number 1 power station, boiler numbers 1, 2, 3, and 4	0.016 lbs/MMBtu	15.809
Stack serving number 1 power station, boiler numbers 5, 6, 7, and 8	0.016 lbs/MMBtu	13.244
Stack serving number 11 pipe still furnaces H-101, H-102, H-103, H-104, coke preheaters	0.004 lbs/MMBtu	0.741
Number 11 pipe still, H-1X heater	0.031 lbs/MMBtu	6.867
Number 11 pipe still, H-2 vacuum heater	0.032 lbs/MMBtu	1.440
Number 11 pipe still, H-200 crude charge	0.032 lbs/MMBtu	7.866
Number 11 pipe still, H-3 vacuum heater	0.031 lbs/MMBtu	1.704
Number 11 pipe still, H-300 furnace	0.031 lbs/MMBtu	4.931
Stack serving number 12 pipe still, H-1A and H-1B preheaters and H-2 vacuum heater	0.025 lbs/MMBtu	16.348
Each stack serving number 12 pipe still, H-1CN and H-1CS crude preheater	0.004 lbs/MMBtu	0.444
Number 12 pipe still, H-1CX crude preheater	0.004 lbs/MMBtu	0.924
Number 2 isomerization, F-7 furnace	0.004 lbs/MMBtu	0.085
Number 2 isomerization, H-1 feed heater furnace	0.004 lbs/MMBtu	0.704
Each stack serving number 3 power station, boiler numbers 1, 2, 3, 4, and 6	0.030 lbs/MMBtu	17.49
Number 3 ultraformer, F-7 furnace	0.004 lbs/MMBtu	0.085
Number 3 ultraformer, H-1 feed heater furnace	0.004 lbs/MMBtu	0.852

Number 3 ultraformer, H-2 feed heater furnace	0.004 lbs/MMBtu	0.685
Number 3 ultraformer, waste heat recovery unit	0.004 lbs/MMBtu	1.537
Stack serving number 37 pipe still, B-1 feed preheater, B-2 wax fractioner	0.018 lbs/MMBtu	1.903
Stack serving number 4 ultraformer, F-1 ultrafiner furnace F-8A and F-8B reboilers	0.004 lbs/MMBtu	1.459
Number 4 ultraformer, F-2 preheater furnace	0.004 lbs/MMBtu	1.059
Number 4 ultraformer, F-3 number 1 reheat furnace	0.004 lbs/MMBtu	0.896
Stack serving number 4 ultraformer, F-4 number 2 reheat furnace, F-5 number 3 reheat furnace, and F-6 number 4 reheat furnace	0.004 lbs/MMBtu	1.060
Number 4 ultraformer, F-7 furnace	0.004 lbs/MMBtu	0.159
Aromatics recovery unit, F-200A furnace	0.004 lbs/MMBtu	0.924
Aromatics recovery unit, F-200B furnace	0.004 lbs/MMBtu	0.924
Blending oil desulphurization, F-401 furnace	0.004 lbs/MMBtu	0.130
Cat feed hydrotreating unit	0.004 lbs/MMBtu	0.246
F-1 Berry Lake distillate heater	0.004 lbs/MMBtu	0.048
F-2 Steiglitz Park residual heater	0.008 lbs/MMBtu	0.208
Stack serving heavy oils unit, H-101, H-201, H-202	0.004 lbs/MMBtu	0.030
NMP extraction unit, B-105 furnace	0.023 lbs/MMBtu	1.174
NMP extraction unit, B-106 furnace	0.004 lbs/MMBtu	0.352
Oil hydrotreating unit	0.004 lbs/MMBtu	0.059
Sulfur recovery unit incinerator	0.004 lbs/MMBtu	0.090
Asphalt oxidizer number 1	0.000 lbs/ton	0.000
Asphalt oxidizer number 2	0.000 lbs/ton	0.000
Asphalt oxidizer number 3	0.000 lbs/ton	0.000
Tail gas unit (new)	0.110 lbs/ton	0.103
Wastewater sludge fluid bed incinerator	0.173 lbs/ton based on 79,000 lbs/hr fluidizing air flow	6.84
FCU 500	1.220 lbs/1,000 lbs coke burned	73.20
FCU 600	1.10 lbs/1,000 lbs coke burned	55.00
DDU WB-301	0.004 lbs/MMBtu	0.250
DDU WB-302	0.004 lbs/MMBtu	0.240
Hydrogen unit B-1	0.009 lbs/MMBtu	3.340
(7) ASSOCIATED BOX		
Wood chip fired space heating boiler	0.810 lbs/MMBtu	4.450
(8) BUCKO CONSTRUCTION		
Rotary dryer	0.017 lbs/hr	4.440
(9) SMITH READY MIX		
Central mix	0.0013 lbs/ton	0.350
(10) STATE LINE ENERGY, LLC		
Unit 3	0.100 lbs/MMBtu	213.00
Unit 4	0.100 lbs/MMBtu	356.80
(11) E.I. DUPONT		
Sodium silicate furnace	1.439 lbs/ton	6.0
(12) GENERAL REFRACTORY		
Ball milling storage	0.041 lbs/ton	0.410
Crushing and sizing	0.012 lbs/ton	0.460
Material handling system	0.003 lbs/ton	0.220
Material loading	0.006 lbs/ton	0.150
Material weighing	0.064 lbs/ton	0.350
Mixing and packaging	0.354 lbs/ton	2.480

Sizing, conveying, and storage	0.029 lbs/ton	0.580
(13) GEORGIA PACIFIC		
Boiler number 1	0.129 lbs/MMBtu	9.380
(14) GLOBE INDUSTRIES		
Stack serving asphalt saturators (2 units)	0.060 lbs/ton of product	4.500
(15) HAMMOND GROUP INC. (HGI)		
Stack 17-S-40	0.030 gr/dscf	2.120
Stack 20-S-36	0.022 gr/dscf	0.395
Stack 20-S-41	0.022 gr/dscf	0.450
Stack 20-S-37	0.022 gr/dscf	0.200
Stack 20-S-38	0.022 gr/dscf	0.087
Stack 17-S-25	0.030 gr/dscf	2.120
Stack 20-S-42	0.022 gr/dscf	0.200
Stack 20-S-43	0.022 gr/dscf	0.087
Stack 20-S-39	0.022 gr/dscf	0.496
Stack 20-S-44	0.022 gr/dscf	0.496
Stack 13-S-48	0.022 gr/dscf	0.471
Stack 14-S-45	0.022 gr/dscf	0.471
(16) HAMMOND GROUP INC.–HALSTAB DIVISION		
Stack S-1	0.022 gr/dscf	0.220
Stack S-2	0.022 gr/dscf	0.080
Stack S-4	0.022 gr/dscf	1.460
Stack S-5	0.022 gr/dscf	1.030
Stacks S-6, S-7, and S-8, each stack	0.022 gr/dscf	0.570
Stacks S-9, S-10, S-11, S-12, S-13, S-14, S-15, and S-16, each stack	0.022 gr/dscf	0.200
Stack S-17	0.022 gr/dscf	1.990
(17) HAMMOND GROUP INC. (HGI)		
Stack 1-S-54	0.0 gr/dscf	0.000
Stack 4A-S-8	0.022 gr/dscf	0.250
Stack 14-S-16	0.022 gr/dscf	0.250
Stack 1-S-2	0.022 gr/dscf	0.250
Stack 1-S-26	0.022 gr/dscf	0.250
Stack 16-S-56	0.022 gr/dscf	1.000
Stack 1-S-52	0.022 gr/dscf	1.000
Stack 1-S-27	0.022 gr/dscf	0.290
Stack 4-S-35	0.022 gr/dscf	0.570
Stack 6-S-33	0.022 gr/dscf	0.900
Stack 4B-S-34	0.022 gr/dscf	0.400
Stack 6-S-47	0.022 gr/dscf	0.400
V-1	0.022 gr/dscf	1.000
Stack 14-S-15	0.022 gr/dscf	0.320
(18) HARBISON–WALKER REFRACTORIES, HAMMOND WORKS		
Each stack serving tunnel kiln numbers 1 (S-6) and 2 (S-3)	1.36 lbs/ton	4.50
Each stack serving tunnel kiln numbers 1 (S-6) and 2 (S-3) if only one kiln is in operation	1.36 lbs/ton	8.40
Lanley oven (S-7)	0.210 lbs/ton	0.840
Basic dryer (stack 8)	0.916 lbs/ton	3.020
Chrome ore crushing (D-9)	0.024 lbs/ton	0.490
Chrome ore rotary dryer (D-10)	0.032 lbs/ton	0.640
Chrome ore handling (D-11) and storage	0.020 lbs/ton	0.410
Chrome ore screening (D-12) and milling	0.078 lbs/ton	1.240
Chrome ore finished (D-13) material handling and storage	0.044 lbs/ton	0.700
Magnesite unloading and crushing (D-18)	0.017 lbs/ton	0.580
Magnesite material handling and storage (D-2)	0.012 lbs/ton	0.410

Magnesite screening and milling (D-8)	0.051 lbs/ton	1.280
Specialty magnesite handling system (D-16)	0.097 lbs/ton	0.260
Magnesite chrome ore mixer number 3 (D-6)	0.033 lbs/ton	0.230
Magnesite chrome ore mixer number 2 and flat mixer (D-5)	0.033 lbs/ton	0.460
Magnesite chrome ore mixer number 1 (D-4)	0.033 lbs/ton	0.230
Magnesite carbon mixers (D-7)	0.054 lbs/ton	0.460
Magnesite smooth roll crusher system (D-15)	0.067 lbs/ton	0.500
Magnesite auxiliary milling system (D-14)	0.086 lbs/ton	0.170
(19) INLAND STEEL		
Number 4 slab mill scarfer	0.039 lbs/ton	21.97
Number 2A bloomer scarfer	0.107 lbs/ton	10.70
Mold foundry baghouse	0.011 gr/dscf	26.00
Sinter plant discharge end and cooler baghouse	0.01 gr/dscf TSP	11.70 TSP
Sinter plant windbox baghouse	0.007 gr/dscf TSP	17.00 TSP
Lime plant silo baghouses	0.085 lbs/ton	5.530
Lime plant firing and kiln baghouses	0.110 lbs/ton	7.149
Number 4 roll shop ervin blaster/baghouse	0.0052 gr/dscf TSP	0.210 TSP
Number 4 roll shop wheelabrator baghouse	0.0052 gr/dscf TSP	0.260 TSP
Number 4A roll shop ervin blaster/baghouse	0.0052 gr/dscf TSP	0.210 TSP
Number 4A roll shop pangborn blaster/baghouse	0.0052 gr/dscf TSP	0.260 TSP
Number 2 roll shop pangborn blaster/baghouse	0.0052 gr/dscf TSP	0.270 TSP
Number 6 roll shop roll blaster/baghouse	0.0052 gr/dscf TSP	0.200 TSP
Electric shop blasters/baghouses	0.0052 gr/dscf TSP	1.070 TSP
Number 11 coke battery preheaters (2 units)	0.00	0.00
Number 11 coke battery shed baghouse	0.00	0.00
Number 6 coke battery underfire stack	0.00	0.00
Number 7 coke battery underfire stack	0.00	0.00
Number 8 coke battery underfire stack	0.00	0.00
Number 9 coke battery underfire stack	0.00	0.00
Number 10 coke battery underfire stack	0.00	0.00
Number 11 coke battery underfire stack	0.00	0.00
Number 7B blast furnace canopy baghouse	0.003 gr/dscf	11.22
Number 7 blast furnace stockhouse pellet baghouse	0.0052 gr/dscf	4.00
Number 7 blast furnace casthouse baghouse	0.011 gr/dscf TSP	22.00 TSP
Number 7 blast furnace coke screening baghouse	0.007 gr/dscf TSP	4.200 TSP
Number 7 blast furnace stockhouse coke baghouse	0.01 gr/dscf TSP	2.00 TSP
Number 1 blast furnace stoves (4 units)	0.000	0.000
Number 2 blast furnace stoves (4 units)	0.000	0.000
Number 2 basic oxygen furnace number 10 furnace stack	0.058 lbs/ton TSP	16.00 TSP
Number 2 basic oxygen furnace number 20 furnace stack	0.058 lbs/ton TSP	16.00 TSP
Number 2 basic oxygen furnace caster fume collection baghouse	0.0052 gr/dscf TSP	2.00 TSP
Number 2 basic oxygen furnace ladle metallurgical station baghouse	0.0052 gr/dscf TSP	2.00 TSP
Number 2 basic oxygen furnace secondary ventilation system scrubber	0.015 gr/dscf TSP	12.00 TSP
Number 2 basic oxygen furnace tundish dump baghouse	0.0052 gr/dscf TSP	2.200 TSP
Number 2 basic oxygen furnace charging aisle reladling and desulfurization baghouse	0.011 gr/dscf TSP	28.30 TSP
Number 2 basic oxygen furnace truck and ladle hopper baghouse	0.0052 gr/dscf TSP	0.800 TSP
Number 2 basic oxygen furnace flux storage and batch baghouse	0.0052 gr/dscf TSP	0.530 TSP
Number 4 basic oxygen furnace reladling and desulfurization baghouse	0.0052 gr/dscf TSP	8.26 TSP
Number 4 basic oxygen furnace scrubber stack (steelmaking)	0.187 lbs/ton TSP	100.00 TSP
Number 4 basic oxygen furnace vacuum degassing baghouse	0.01 gr/dscf TSP	4.280 TSP
Number 4 basic oxygen furnace secondary ventilation system baghouse	0.006 gr/dscf TSP	22.30 TSP
Stack serving blast furnace stove, number 5 (3 units)	0.016 lbs/MMBtu	4.70
Stack serving blast furnace stove, number 6 (4 units)	0.016 lbs/MMBtu	3.64

Stack serving blast furnace stove, number 7 (3 units)	0.0076 lbs/MMBtu	6.32
Stack serving “A” blast furnace stoves (3 units)	0.021 lbs/MMBtu	5.090
Stack serving “B” blast furnace stoves (3 units)	0.021 lbs/MMBtu	5.090
100 inch plate mill reheat furnace	0.078 lbs/MMBtu	13.74
Number 2 bloom mill soaking pit, numbers 1 through 4	0.000	0.000
Number 2 bloom mill soaking pit numbers 5 through 16 collective	0.000	0.000
Number 2 bloom mill soaking pit numbers 19 through 20 collective	0.000	0.000
Number 4 slabber soaking pit numbers 1 through 18 collective	0.0 lbs/MMBtu	0.0
Number 4 slabber soaking pit numbers 19 through 45 collective	0.006 lbs/MMBtu	1.750
Stack serving number 2AC station boiler numbers 207 through 210	0.000	0.000
Stack serving number 2AC station boiler numbers 211 through 213	0.018 lbs/MMBtu	16.20
Stack serving number 3AC station boiler numbers 301 through 304	0.018 lbs/MMBtu	16.20
Number 3AC station boiler number 305	0.018 lbs/MMBtu	5.400
Stack serving number 4AC station boiler number 401 through 404	0.042 lbs/MMBtu	76.578
Number 4AC station boiler number 405	0.028 lbs/MMBtu	18.78
Stack serving number 5 boiler house (3 units)	0.013 lbs/MMBtu	18.05
Electric arc furnace shop direct shell evacuation system baghouse roof monitor	0.0052 gr/dscf	17.14
Electric arc furnace shop ladle metallurgical station baghouse	0.01 gr/dscf	0.820
Coal conveyor transfer baghouse A	0.003 gr/dscf	0.17
Blending system baghouse B	0.003 gr/dscf	0.54
Coal storage bin baghouse C	0.003 gr/dscf	0.23
Coal pulverizer baghouse D	0.0015 gr/dscf	0.93
Coal pulverizer baghouse E	0.0015 gr/dscf	0.93
Number 7 blast furnace coal storage bin baghouse F	0.003 gr/dscf	0.09
Number 7 blast furnace coal storage bin baghouse G	0.003 gr/dscf	0.09
Numbers 5 and 6 blast furnace coal storage bin baghouse H	0.003 gr/dscf	0.09
(20) KEIL CHEMICAL–DIVISION OF FERRO CORPORATION		
Cleaver brooks boiler B-4	0.007 lbs/MMBtu	0.09
Cleaver brooks boiler B-5	0.007 lbs/MMBtu	0.14
VA power B-3 boiler	0.007 lbs/MMBtu	0.04
Chlorinated wax process	0.001 lbs/ton	0.003
Pyro-chek 68PB1	0.052 lbs/ton	0.030
Pyro-chek 77PB2	0.122 lbs/ton	0.040
Sulfurized fat process	0.157 lbs/ton	0.230
(21) THE CHINET COMPANY		
Molded pulp dryer number 1	0.546 lbs/ton	0.210
Molded pulp dryer number 2	0.546 lbs/ton	0.250
Molded pulp dryer number 3	0.546 lbs/ton	0.290
Molded pulp dryer number 4	0.546 lbs/ton	0.290
Molded pulp dryer number 5	0.546 lbs/ton	0.130
Molded pulp dryer number 6	0.546 lbs/ton	0.130
Molded pulp dryer number K34	0.546 lbs/ton	0.130
Molded pulp dryer number 8	0.546 lbs/ton	0.350
Molded pulp dryer number 9	0.546 lbs/ton	0.410
Molded pulp dryer number 10	0.546 lbs/ton	0.350
Babcock and Wilcox boiler	0.007 lbs/MMBtu	0.050
(22) LTV STEEL CORPORATION		
Stack serving number 3 blast furnace stoves	0.027 lbs/MMBtu	11.73
Stack serving number 4 blast furnace stoves	0.027 lbs/MMBtu	12.93
Stack serving hot strip mill slab heat furnace numbers 1, 2, and 3	0.086 lbs/MMBtu	36.56
Utility boiler number 3	0.066 lbs/MMBtu	12.85
Utility boiler number 4	0.066 lbs/MMBtu	12.85
Utility boiler number 5	0.066 lbs/MMBtu	25.69
Utility boiler number 6	0.066 lbs/MMBtu	25.69

Utility boiler number 7	0.066 lbs/MMBtu	25.69
Utility boiler number 8	0.066 lbs/MMBtu	61.59
Basic oxygen furnace main stack	0.018 gr/dscf	69.40
Reladling and desulfurization baghouse	0.008 gr/dscf	10.49
Ladle metallurgical station baghouse	0.004 gr/dscf	3.630
Sinter plant breaker discharge end	0.02 gr/dscf TSP	18.05 TSP
Sinter plant windbox stack 08	0.02 gr/dscf TSP	49.70 TSP
(23) UNILEVER HPC, USA		
Boiler house, building number 8, boiler number 2	0.116 lbs/MMBtu	9.570
Stack serving boiler house, building number 8, boiler numbers 3 and 4	0.116 lbs/MMBtu	18.88
Dowtherm boiler, DEFI process building 6	0.004 lbs/MMBtu	2.700
Milling and pelletizer soap dust collection system (DC-1), building number 15	0.020 gr/dscf	1.03
Powder dye dust collector system (DC-4), building number 15	0.020 gr/dscf	0.130
Schenible wet scrubber and demister collector system, building number 15	0.030 gr/dscf	1.030
Each stack serving detergent bar soap noodle bins numbers 1, 2, and 3 dust collection system (DC-5, DC-6, and DC-7)	0.020 gr/dscf	0.210
Stack serving chip mixers numbers 1, 2, and 3 soap dust collection system, building number 15 (DC-8, DC-9, and DC-10)	0.020 gr/dscf	0.720
Rework soap dust collection system (DC-3), building number 15	0.020 gr/dscf	0.800
Three chill rolls and apron conveyors (DC-2), building number 15	0.020 gr/dscf	1.090
High titer granules and chips manufacturing process, building number 6	0.930 lbs/ton	3.500
Detergent bar soap manufacturing process number 1, stack 7, building number 6	1.140 lbs/ton	4.000
Detergent bar soap manufacturing process number 2, stack 16A, building number 6	1.140 lbs/ton	4.000
Bulk filtrol unloading bleached earth dust collection system, building number 1	0.020 gr/dscf	0.070
Oil refinery/filter aid bag dumping operation, building number 1	0.020 gr/dscf	0.220
3 soap dryers dust collection system, building number 14	0.020 gr/dscf	0.120
6 noodle bins and 1 scrap kettle dust collection system, building number 3	0.020 gr/dscf	0.860
Dust collector system for soap rework grinding process, building number 14	0.020 gr/dscf	0.250
Stack serving hard soap finishing lines numbers 1, 2, 3, 5, 7, and 8 dust collection system (DC), building number 14	0.020 gr/dscf	1.540
Sulfonation process	0.205 lbs/ton	0.390
Soap dryer cleanout system, tank number 1, building number 14	0.030 gr/dscf	0.390
Soap dryer cleanout system, tank number 2, building number 14	0.030 gr/dscf	0.300
Crude glycerine filter aid dust collection system, building number 2	0.020 gr/dscf	0.130
Glycerine carbon handling dust collection system, building number 2	0.020 gr/dscf	0.170
Bulk urea handling system, new detergent bulk soap, building number 15A	0.020 gr/dscf	0.100
American hydrotherm boiler 2, stack 1A, building number 15A	0.150 lbs/MMBtu	1.830
Schenible wet scrubber and demister collection system, stack 2A, building number 15A	0.030 gr/dscf	1.030
Flex Kleen dust collection system DC-1053, stack 3A, building number 15A	0.020 gr/dscf	0.940
Flex Kleen dust collection system DC-1054, stack 4A, building number 15A	0.020 gr/dscf	0.940
Flex Kleen dust collection system DC-1055, stack 5A, building number 15A	0.020 gr/dscf	0.940
Flex Kleen dust collection system DC-1056, stack 6A, building number 15A	0.020 gr/dscf	0.940
Flex Kleen dust collection system DC-1050, stack 7A, building number 15A	0.020 gr/dscf	2.130
Flex Kleen dust collection system DC-1052, stack 8A, building number 15A	0.020 gr/dscf	2.130
Bulk Borax unloading to storage silo, stack 9A, building number 8	0.020 gr/dscf	0.130
Oil refinery/filter aid mixing tank number 44, building number 1, stack 15A	0.060 lbs/ton	0.030
Sample detergent bar soap line operation, building 14, stack 17A	0.002 lbs/ton	0.002
(24) MARBLEHEAD LIME COMPANY		
Flue dust loadout number 1 (MHL 14)	0.003 lbs/ton	0.110
Flue dust loadout number 2 (MHL 15)	0.003 lbs/ton	0.100
Lime grinder (MHL 13)	0.015 lbs/ton	0.440

Lime handling baghouse number 1 (MHL 6)	0.002 lbs/ton	0.260
Lime handling baghouse number 2 (MHL 7)	0.002 lbs/ton	0.180
Lime handling baghouse number 3 (MHL 8)	0.0004 lbs/ton	0.050
Lime handling baghouse number 4 (MHL 9)	0.001 lbs/ton	0.130
Lime loadout baghouse number 1 (MHL 10)	0.0004 lbs/ton	0.050
Lime loadout baghouse number 2 (MHL 11)	0.0004 lbs/ton	0.050
Lime loadout baghouse number 3 (MHL 12)	0.004 lbs/ton	0.410
Lime rotary kiln number 1	0.478 lbs/ton	9.950
Lime rotary kiln number 2	0.478 lbs/ton	9.950
Lime rotary kiln number 3	0.478 lbs/ton	9.950
Lime rotary kiln number 4	0.478 lbs/ton	9.950
Lime rotary kiln number 5	0.478 lbs/ton	9.950

(25) MARPORT SMELTING		
North baghouse	0.601 lbs/ton	2.300
South baghouse	1.279 lbs/ton	4.900
(26) METHODIST HOSPITAL		
Boiler number 1	0.044 lbs/MMBtu	0.350
(27) NATIONAL RECOVERY SYSTEMS		
Drying system	0.203 lbs/ton	4.060
Material storage handling	0.034 lbs/ton	0.680
Each stack serving lime fines storage silos (two (2) stacks)	0.001 lbs/ton	0.012

(28) NIPSCo–MITCHELL

(A) Boiler numbers 4, 5, 6, and 11:

(i) Operation under either item (ii)(BB) or (ii)(CC) shall only be allowed provided that a nozzle is in the stack serving boiler numbers 4 and 5 such that the stack diameter is restricted to eight and three-tenths (8.3) feet.

(ii) NIPSCo may operate under any one (1) of the following scenarios:

(AA) Boiler numbers 4, 5, 6, and 11 may operate simultaneously under the following conditions:

(aa) One (1) of boiler number 4 or 5 may operate on coal if the other boiler is operated on natural gas or is not operating. Particulate emissions from the stack serving boiler numbers 4 and 5 shall be limited to one-tenth (0.1) pound per million Btu and one hundred twenty-eight and seventy-five hundredths (128.75) pounds per hour.

(bb) Boiler numbers 6 and 11 may operate simultaneously on coal. Particulate emissions from the stack serving boiler numbers 6 and 11 shall be limited to one-tenth (0.1) pound per million Btu and two hundred thirty-six (236) pounds per hour.

(BB) Boiler numbers 4, 5, 6, and 11 may operate simultaneously on coal subject to the following conditions:

(aa) Particulate emissions from the stack serving boiler numbers 4 and 5 shall be limited to seventy-four thousandths (0.074) pound per million Btu and one hundred eighty-five (185) pounds per hour.

(bb) Particulate emissions from the stack serving boiler numbers 6 and 11 shall be limited to seventy-four thousandths (0.074) pound per million Btu and one hundred seventy-five (175) pounds per hour.

(CC) One (1) set of either boiler numbers 4 and 5 or 6 and 11 may operate on coal, if the other set is not operating, subject to the following conditions:

(aa) Particulate emissions from the stack serving boiler numbers 4 and 5 shall be limited to one-tenth (0.1) pound per million Btu and two hundred fifty (250) pounds per hour.

(bb) Particulate emissions from the stack serving boiler numbers 6 and 11 shall be limited to one-tenth (0.1) pound per million Btu and two hundred thirty-six (236) pounds per hour.

(iii) NIPSCo shall maintain a daily log of the following for boiler numbers 4, 5, 6, and 11:

(AA) Fuel type.

(BB) Transition time of changes between or within operating scenarios.

The log shall be maintained for a minimum of five (5) years and shall be made available to the department and U.S. EPA upon request.

(iv) Emission limits shall be maintained during transition periods within or between operating scenarios.

(B) Upon the effective date of this amended rule, biennial stack testing shall be conducted in the stack serving boiler numbers 4 and 5 and in the stack serving boiler numbers 6 and 11, meeting the following conditions:

(i) Stack testing shall begin within sixty (60) days and be completed within ninety (90) days of the initial ~~utilization~~ **use** of the operating scenario specified in clause (A)(ii)(BB). Particulate emissions from boiler numbers 4, 5, 6, and 11 shall be limited to seventy-four thousandths (0.074) pound per million Btu.

(ii) After the initial stack test specified in item (i), NIPSCo may ~~utilize~~ **use** the operating scenario specified in clause (A)(ii)(BB) if in the previous biennial stack test particulate emissions from boiler numbers 4, 5, 6, and 11 met the emission limitation of seventy-four thousandths (0.074) pound per million Btu.

(iii) If the operating scenario specified in clause (A)(ii)(BB) has not been ~~utilized~~ **used** since the previous biennial stack test specified in this clause, then particulate emissions from boiler numbers 4, 5, 6, and 11 shall be limited to one-tenth (0.1) pound per million Btu.

(iv) If the operating scenario specified in clause (A)(ii)(BB) has been ~~utilized~~ **used** since the previous biennial stack test specified in this clause, and NIPSCo no longer has the ability to operate the boilers as specified in clause (A)(ii)(BB), then particulate emissions from boiler numbers 4, 5, 6, and 11 shall be limited to one-tenth (0.1) pound per million Btu.

All emissions testing shall be conducted in accordance with the procedures specified in 326 IAC 3-6. Records of stack test data shall be maintained for a minimum of five (5) years and shall be made available to the department and U.S. EPA upon request.

(29) PREMIER CANDY COMPANY		
Boiler number 1 (North)	0.069 lbs/MMBtu	0.420
Boiler number 2 (South)	0.069 lbs/MMBtu	0.450
(30) LASALLE STEEL COMPANY		
Fume scrubber	0.015 lbs/ton	0.060
Number 11 furnace precipitator	0.548 lbs/ton	0.940
Stack serving shot blast baghouse (2 units)	0.001 lbs/ton	0.020
(31) REED MINERALS PLANT #14		
Fluidized bed dryer	0.015 gr/dscf	3.5
Crushing and screening	0.015 gr/dscf	9.0
(32) RHODIA, INC.		
Package boiler	0.007 lbs/MMBtu	0.755
Preheater	0.007 lbs/MMBtu	0.230
Sulfuric acid production unit number 4	0.150 lbs/ton acid produced	6.958 acid mist
(33) PRAXAIR		
Cylinder paint spray booth, stack 033	42.5 lbs/ton	0.340
Drum+ shotblaster and baghouse, stack 075	0.002 gr/dscf	0.028
Drum paint spray booth, stack 073	42.5 lbs/ton	0.340
Cylinder shotblaster number 2 baghouse, stack 030	0.004 gr/dscf	0.042
Generators, numbers 1 through 6	0.008 lbs/MMBtu	0.279
Cylinder shotblaster number 1 baghouse, stack 031	0.002 gr/dscf	0.020
(34) UNION TANK CAR COMPANY		
Grit blaster	0.01 gr/dscf	9.9
(35) U.S. GYPSUM COMPANY		
Raw material handling		
Rail car unloading, stack J10	0.010 gr/dscf	0.070
Each stack serving raw material conveying and storage, stacks J11, J12, and J13	0.015 gr/dscf	0.190
Rock handling process		
Drying, grinding, and calcining, stack M1	0.012 gr/dscf	3.210
Stucco elevating and conveying, stack M2	0.015 gr/dscf	2.210
Franklin fiber process, stack M6	0.011 gr/dscf	0.313
Wallboard manufacturing process		
Paper grinding and stucco system, stack B1	0.020 gr/dscf	2.230

Wallboard end sawing, stack B2	0.020 gr/dscf	0.860
Speciality board manufacturing process (kerfing), stack B3	0.020 gr/dscf	0.260
Each stack serving ready mix process, stacks J1, J2, and J3	0.017 lbs/ton	0.100
Dry texture paint process		
Mixing and packing, stack J4	0.020 gr/dscf	0.190
Bag dumping, stack J5	0.010 gr/dscf	0.100
Dry additive conveying, stack J6	0.010 gr/dscf	0.030
Dry joint compound process		
Mixing and packing, stack J7	0.020 gr/dscf	0.340
Additive air conveying, stack J8	0.010 gr/dscf	0.34
Panel saw process	0.020 gr/dscf	0.140
(36) USS–Gary Works		
~~Each stack serving number 3 sinter plant coolers~~	~~0.03 gr/dscf TSP~~	~~154.3 TSP~~
~~Number 3 sinter plant discharge area baghouse~~	~~0.02 gr/dscf~~	~~5.12~~
~~Number 3 sinter plant screening station baghouse~~	~~0.0052 gr/dscf~~	~~7.5~~
~~S1/S2 baghouse~~	~~0.0052 gr/dscf~~	~~0.83~~
~~Number 3 sinter plant storage bins building baghouse~~	~~0.01 gr/dscf~~	~~1.300~~
~~Each stack serving number 3 sinter plant windbox stacks~~	~~0.065 gr/dscf TSP~~	~~167.1~~
~~Number 2 QBOP flux handling lime baghouse~~	~~0.01 gr/dscf~~	~~2.600~~
~~Coke battery number 2 underfire stack~~	~~0.05 gr/dscf~~	~~27.54~~
~~Coke battery number 3 underfire stack~~	~~0.05 gr/dscf~~	~~42.140~~
~~Coke battery number 5 underfire stack~~	~~0.05 gr/dscf~~	~~16.80~~
~~Coke battery number 7 underfire stack~~	~~0.05 gr/dscf~~	~~20.40~~
~~Each stack serving number 2 precarbon building precipitators (3 units)~~	~~0.06 gr/dscf~~	~~2.5~~
~~Each stack serving number 3 precarbon building precipitators (3 units)~~	~~0.06 gr/dscf~~	~~2.5~~
~~Each stack serving number 1 BOP gas cleaning (2 units)~~	~~0.02 gr/dscf~~	~~17.2~~
~~Each stack serving number 2 QBOP gas cleaning (2 units)~~	~~0.02 gr/dscf~~	~~18.20~~
~~Number 2 QBOP hot metal desulfurization baghouse (8 stacks)~~	~~0.0052 gr/dscf~~	~~1.44~~
~~New 2 QBOP secondary baghouse~~	~~0.0052 gr/dscf~~	~~25.9~~
~~Number 1 basic oxygen furnace iron desulfurization baghouse~~	~~0.01 gr/dscf~~	~~9.32~~
~~Number 2 QBOP ladle metal baghouse number 1~~	~~0.01 gr/dscf~~	~~6.86~~
~~Number 2 QBOP ladle metal baghouse number 2~~	~~0.01 gr/dscf~~	~~2.44~~
~~Number 2 QBOP ladle metallurgy facility number 3 reheat furnace hot fume extraction and material handling baghouse~~	~~0.01 gr/dscf~~	~~4.33~~
~~Number 13 blast furnace sinter screening station number 13 baghouse~~	~~0.02 gr/dscf~~	~~2.5~~
~~Stack serving blast furnace stove number 4~~	~~0.029 lbs/MMBtu~~	~~11.60~~
~~Stack serving blast furnace stove number 6~~	~~0.029 lbs/MMBtu~~	~~11.6~~
~~Stack serving blast furnace stove numbers 7 and~~ 8	~~0.029 lbs/MMBtu~~	~~23.20~~
~~Stack serving blast furnace stove number 13~~	~~0.015 lbs/MMBtu~~	~~21.20~~
~~Each stack serving boiler house number 4~~	~~0.036 lbs/MMBtu~~	~~13.155~~
~~Number 2 coke plant boiler house; boiler number 3~~	~~0.020 lbs/MMBtu~~	~~2.7~~
~~Stack serving number 2 coke plant boiler house; boiler numbers 4 and 5~~	~~0.033 lbs/MMBtu~~	~~10.0~~
~~Number 2 coke plant boiler house; boiler number 6~~	~~0.020 lbs/MMBtu~~	~~3.000~~
~~Number 2 coke plant boiler house; boiler number 7~~	~~0.011 lbs/MMBtu~~	~~1.800~~
~~Number 2 coke plant boiler house; boiler number~~ 8	~~0.011 lbs/MMBtu~~	~~2.61~~
~~Each stack serving turboblower boiler numbers 1 through 5~~	~~0.025 lbs/MMBtu~~	~~8.400~~
~~Turboblower boiler number 6~~	~~0.025 lbs/MMBtu~~	~~16.58~~
~~Each stack serving 84 inch hot strip mill; reheat furnaces (four (4) units)~~	~~0.064 lbs/MMBtu~~	~~28.2~~
~~84 inch hot strip mill; waste heat boiler number 1~~	~~0.064 lbs/MMBtu~~	~~10.9~~
~~84 inch hot strip mill; waste heat boiler number 2~~	~~0.064 lbs/MMBtu~~	~~12.8~~
~~Each stack serving 160/210 inch plate mill; batch reheat furnace numbers 1 through 4~~	~~0.011 lbs/MMBtu~~	~~0.33~~
~~160/210 inch plate mill; continuous reheat furnace number 1~~	~~0.011 lbs/MMBtu~~	~~2.75~~
~~160/210 inch plate mill; continuous reheat furnace number 2~~	~~0.011 lbs/MMBtu~~	~~2.75~~

~~Stack serving 160/210 inch continuous heat treating furnaces 1, 2, 3, and 4~~	~~0.011 lbs/MMBtu~~	~~1.1~~
Coke battery #2 precarbonization system electrostatic precipitators	**not applicable**	**62.5 (total)**
Coke battery #3 precarbonization system electrostatic precipitators	**not applicable**	**62.5 (total)**
Number 3 sinter plant coolers	**0.0300 gr/dscfm**	**272.57 (total)**
Number 3 sinter plant discharge area baghouses	**0.0100 gr/dscfm**	**20.57 (total)**
Number 3 sinter plant sinter screening station baghouse	**0.0100 gr/dscfm**	**10.89**
Number 3 sinter plant storage bins building baghouse	**0.0100 gr/dscfm**	**0.43**
Number 3 sinter plant windbox stacks	**0.020 gr/dscfm**	**200 (total)**
Number 4 boiler house boilers when three boilers are operating	**0.036 lbs/MMBtu**	**54.1 (total)**
Number 4 boiler house boilers when one or two boilers are operating	**0.054 lbs/MMBtu**	**54.1 (total)**
Plate mill batch reheat furnaces nos. 6 and 8	**0.009 lbs/MMBtu**	**0.070 (total)**
Plate mill continuous reheat furnaces 1 and 2	**0.009 lbs/MMBtu**	**3.72 (total)**
84″ hot strip mill reheat furnaces nos. 1, 2, 3, and 4	**0.017 lbs/MMBtu**	**40.80 (total)**
84″ hot strip mill waste heat boiler no. 1	**0.043 lbs/MMBtu**	**10.00**
84″ hot strip mill waste heat boiler no. 2	**0.043 lbs/MMBtu**	**10.00**
Blast furnace number 13 stoves	**0.024 lbs/MMBtu**	**20.40 (total)**
Blast furnace number 4 stoves	**0.033 lbs/MMBtu**	**11.70 (total)**
Blast furnace number 6 stoves	**0.033 lbs/MMBtu**	**11.70 (total)**
Blast furnace number 8 stoves	**0.033 lbs/MMBtu**	**11.70 (total)**
Coke battery number 2 underfiring stack	**not applicable**	**32.30**
Coke battery number 3 underfiring stack	**not applicable**	**25.50**
Coke battery number 5 underfiring stack	**not applicable**	**24.70**
Coke battery number 7 underfiring stack	**not applicable**	**21.30**
Coke plant boiler house, boiler numbers 1 and 2	**0.003 lbs/MMBtu**	**0.75 (total)**
Coke plant boiler house, boiler number 3	**0.012 lbs/MMBtu**	**1.80**
Coke plant boiler house, boiler numbers 4 and 5	**0.012 lbs/MMBtu**	**3.90**
Coke plant boiler house, boiler number 6	**0.012 lbs/MMBtu**	**2.00**
Coke plant boiler house, boiler number 7	**0.012 lbs/MMBtu**	**1.90**
Coke plant boiler house, boiler number 8	**0.012 lbs/MMBtu**	**2.90**
Number 1 BOP hot metal desulfurization baghouse	**0.007 gr/dscfm**	**15.0**
Number 2 Q-BOP LMF Numbers 1 and 2 material handling baghouse	**0.007 gr/dscfm**	**3.83**
Number 2 Q-BOP LMF number 3 hot fume exhaust/material handling baghouse	**0.0070 gr/dscfm**	**2.70**
Number 2 Q-BOP hot metal desulfurization baghouse	**0.007 gr/dscfm**	**13.0**
Number 1 BOP gas cleaning system	**0.011 gr/dscfm**	**46.0 (total)**
Number 2 Q-BOP gas cleaning system	**0.0153 gr/dscfm**	**44.40 (total)**
TBBH boiler number 6	**0.039 lbs/MMBtu**	**27.80**
TBBH boiler numbers 1, 2, 3, and 5 when four boilers are operating	**0.037 lbs/MMBtu**	**61.0 (total)**
TBBH boiler numbers 1, 2, 3, and 5 when three boilers are operating	**0.050 lbs/MMBtu**	**61.0 (total)**
TBBH boiler numbers 1, 2, 3, and 5 when one or two boilers are operating	**0.074 lbs/MMBtu**	**61.0 (total)**
Number 2 Q-BOP north flux handling system baghouse	**0.0070 gr/dscfm**	**1.80**
Number 2 Q-BOP south flux handling system baghouse	**0.0070 gr/dscfm**	**1.80**
Number 2 Q-BOP secondary emissions baghouse	**0.007 gr/dscfm**	**27.0**
Number 3 sinter plant S1/S2 baghouse	**0.0100 gr/dscfm**	**1.29**
TBBH boiler number 4A	**0.012 lbs/MMBtu**	**2.90**
Number 13 blast furnace casthouse baghouse	**0.0090 gr/dscfm**	**38.57**
Number 1 BOP Casbell/OB lancing baghouse	**0.0070 gr/dscfm**	**5.10**
Number 2 Q-BOP LMF number 1 hot fume exhaust baghouse	**0.007 gr/dscfm**	**5.1**
Number 2 Q-BOP LMF number 2 hot fume exhaust baghouse	**0.007 gr/dscfm**	**5.1**
Coke plant desulfurization facility tail gas incinerator	**not applicable**	**0.13**
Slab mill slab grinder baghouse	**0.0100 gr/dscfm**	**2.57**
EGL boiler house	**0.0033 lbs/MMBtu**	**0.13 (total)**
Coke battery number 5/7 pushing emissions control baghouse	**0.017 lb/ton coke produced**	**1.28**

Number 2 Q-BOP RH-degasser slag conditioning baghouse	**0.007 gr/dscfm**	**5.49**
Coke plant boiler House lime storage silo baghouse	**0.030 gr/dscfm**	**0.28**
Plate mill heat treatment furnace	**0.003 gr/dscfm**	**0.096**

(e) The following opacity limits shall be complied with and shall take precedence over those in 326 IAC 5-1-2 ~~with which~~ **when** they conflict:

Source	Opacity
INLAND STEEL	
Electric arc furnace direct shell evacuation system baghouse	5%, 6 minute average
Electric furnace shop roof monitor	20%, 6 minute average
Electric furnace shop ladle metallurgical station baghouse	5%, 6 minute average
Number 2 basic oxygen furnace, number 10 furnace off-gas scrubber	20%, 6 minute average
Number 2 basic oxygen furnace, number 20 furnace off-gas scrubber	20%, 6 minute average
Number 2 basic oxygen furnace caster fume collection baghouse	5%, 3 minute average
Number 2 basic oxygen furnace charging isle and reladling desulfurization baghouse	5%, 3 minute average
Number 2 basic oxygen furnace flux storage and batch baghouse	5%, 3 minute average
Number 2 basic oxygen furnace ladle metallurgy station baghouse	5%, 3 minute average
Number 2 basic oxygen furnace roof monitor	20%, 3 minute average
Number 2 basic oxygen furnace secondary ventilation system scrubber	20%, 6 minute average
Number 2 basic oxygen furnace truck and ladle hopper baghouse	5%, 3 minute average
Number 2 basic oxygen furnace tundish dump baghouse	5%, 3 minute average
Number 4 basic oxygen furnace off-gas scrubber	20%, 6 minute average
Number 4 basic oxygen furnace reladling and desulfurization baghouse	5%, 3 minute average
Number 4 basic oxygen furnace roof monitor	20%, 3 minute average
Number 4 basic oxygen furnace secondary ventilation system baghouse	5%, 3 minute average
Number 4 basic oxygen furnace vacuum degassing material handling baghouse	5%, 3 minute average
Number 7 blast furnace casthouse	15%, 6 minute average
LTV STEEL CORPORATION	
Basic oxygen furnace ladle metallurgical station baghouse	5%, 3 minute average
Basic oxygen furnace main stack	20%, 6 minute average
Basic oxygen furnace reladling and desulfurization baghouse	5%, 3 minute average
Basic oxygen furnace shop roof monitor	20%, 3 minute average
USS–Gary Works	
Number 1 basic oxygen furnace iron desulfurization baghouse	5%, 3 minute average
Number 1 basic oxygen furnace roof monitor	20%, 3 minute average
Number 1 basic oxygen process gas cleaning (two (2) units)	20%, 6 minute average
Number 2 QBOP hot metal desulfurization baghouse	5%, 3 minute average
Number 2 QBOP gas cleaning	20%, 6 minute average
Number 2 QBOP roof monitor	20%, 3 minute average
Number 2 QBOP flue handling line baghouse	5%, 3 minute average
New 2 QBOP secondary baghouse	5%, 3 minute average
Number 2 QBOP ladle metallurgy baghouse number 1	5%, 3 minute average
Number 2 QBOP ladle metallurgy baghouse number 2	5%, 3 minute average

(f) Test methods for this section shall be as follows:

(1) Emissions of PM_{10} shall be measured by any of the following methods:

(A) 40 CFR 51, Appendix M, Method 201*.

(B) 40 CFR 51, Appendix M, Method 201A*.

(C) The volumetric flow rate and gas velocity shall be determined in accordance with 40 CFR 60, Appendix A, Method 1, 1A, 2, 2A, 2C, 2D, 3, or 4*.

(2) Emissions for TSP matter shall be measured by the following methods:

(A) 40 CFR 60, Appendix A, Method 5, 5A, 5D, 5E, or 17*. Method 17 may not be used when the stack gas temperature exceeds two hundred forty-eight (248) degrees Fahrenheit plus or minus twenty-five (25) degrees Fahrenheit.

(B) The volumetric flow rate and gas velocity shall be determined in accordance with 40 CFR 60, Appendix A, Method 1, 1A,

2, 2A, 2C, 2D, 3, or 4*.

(3) Measurements of opacity shall be conducted in accordance with 40 CFR 60, Appendix A, Method 9*, except for those sources where a three (3) minute averaging time is required. Sources requiring a three (3) minute averaging time are subject to all parts of Method 9 except the six (6) minute averaging provision. In these cases, the opacity shall be determined as an average of twelve (12) consecutive observations recorded at fifteen (15) second intervals.

(4) Emissions of sulfuric acid mist shall be measured in accordance with 40 CFR 60, Appendix A, Method 8*.

(5) Compliance with the mass emission limits for the sinter plant windbox stacks at USS Gary in subsection (d) shall be determined by the simultaneous sampling and analysis of both noncondensibles (front half) and condensibles (back half) particulate matter. The quantity of noncondensibles particulate matter in the gas stream shall be determined in accordance with the procedures specified in 40 CFR 60, Appendix A, Method 5*. The quantity of condensible particulate matter in the gas stream shall be determined in accordance with 40 CFR 51, Appendix M, Method 202*, with the following modifications:

(A) A heated Method 5* out of stack filter shall be used instead of an in-stack filter.

(B) The impinger system shall consist of five (5) impingers. The first three (3) impingers shall contain one hundred (100) milliliters of deionized water, the fourth shall be empty, and the fifth shall contain silica gel.

(C) The first four (4) impingers shall be used to determine the quantity of condensible particulate emissions.

Compliance shall be achieved if the sum of the front half and the back half is less than or equal to the mass emission limit of ~~one hundred sixty-seven and one-tenth (167.1)~~ **one hundred (100.0)** lbs/hr **per stack,** and the front half catch is less than or equal to the mass concentration limit of ~~sixty-five thousandths (0.065)~~ **twenty-thousandths (0.020)** gr/dscf in subsection (d).

(g) The installation and operation of opacity continuous emissions monitors shall be conducted according to procedures specified in 326 IAC 3. Prior to December 10, 1993, the following facilities shall have a continuous emission monitor for opacity installed and operating:

(1) Coke battery underfire stacks at USS.

(2) LTV: basic oxygen furnace precipitator main stack.

(3) ~~USS:~~ **US Steel, Gary Works:** numbers 2 and 3 precarbon building preheating and drying line exhaust gas precipitators (six (6) units). One (1) opacity continuous emission monitor shall be installed prior to December 10, 1993. The remaining five (5) opacity continuous emission monitors shall be installed prior to December 31, 1994. Based on an evaluation of the technical feasibility of operation of the first monitor on one (1) line, US Steel, **Gary Works** may petition for a one (1) year extension of the requirement to install the remaining five (5) monitors or for a waiver for installation and operation of the six (6) opacity continuous emission monitors. US Steel, **Gary Works** shall include information on the moisture content of the gases and their effect on accurate opacity measurements as part of the petition.

(h) The following combustion sources shall fire natural gas only:

Source	Units	lbs/hr
(1) JUPITER ALUMINUM CORPORATION		
Number 2 annealer	0.003 lbs/MMBtu	0.048
Number 3 annealer	0.003 lbs/MMBtu	0.048
Annealing furnace	0.003 lbs/MMBtu	0.040
Boiler	0.003 lbs/MMBtu	0.010
(2) SILGAN CONTAINERS MANUFACTURING CORPORATION		
Stack serving basecoat ovens (six (6) units)	0.003 lbs/MMBtu	0.210
Boiler number 4	0.003 lbs/MMBtu	0.010
Stack serving boiler numbers 1, 2, and 3	0.003 lbs/MMBtu	0.170
Stack serving Johnson space heater numbers 1 through 4	0.003 lbs/MMBtu	0.060
Stack serving litho ovens (five (5) units)	0.003 lbs/MMBtu	0.150
(3) CERESTAR USA, INCORPORATED		
Boiler number 1	0.003 lbs/MMBtu	0.288
Boiler number 2	0.003 lbs/MMBtu	0.468
South dextrin furnace number 1	0.003 lbs/MMBtu	0.023
North dextrin furnace number 2	0.003 lbs/MMBtu	0.023
(4) AMERICAN STEEL FOUNDRY–HAMMOND		
Boiler number 4-5509	0.003 lbs/MMBtu	0.030
Furnaces	0.003 lbs/MMBtu	0.16

(5) BP PRODUCTS NORTH AMERICA INC.		
F-100 marine docks distillate heater	0.003 lbs/MMBtu	0.020
(6) SMITH READY MIX		
Stack serving two (2) boiler units	0.003 lbs/MMBtu	0.035
(7) STATE LINE ENERGY, LLC		
Stack serving emergency backup boiler numbers 2-1 and 2-2	0.003 lbs/MMBtu	0.900
(8) E.I. DUPONT		
Power house (one (1) unit)	0.003 lbs/MMBtu	0.100
(9) GATX–GEN AMER TRANS		
Stress relief furnace	0.003 lbs/MMBtu	0.120
(10) GENERAL REFRACTORY		
Tunnel kiln	0.003 lbs/MMBtu	0.040
(11) HAMMOND GROUP, INC. (HGI)		
Stack 18-S-24	0.003 lbs/MMBtu	0.025
Stack 18-S-49	0.003 lbs/MMBtu	0.025
(12) HAMMOND GROUP, INC.–HALSTAB DIVISION		
Stack S-18	0.003 lbs/MMBtu	0.008
Stack S-19	0.003 lbs/MMBtu	0.008
(13) INLAND STEEL		
12 inch bar mill reheat furnace	0.003 lbs/MMBtu	1.090
Stack serving 21 inch bar mill reheat furnace numbers 1 and 2	0.003 lbs/MMBtu	1.31
Stack serving 76 inch hot strip mill reheat furnace numbers 1, 2, and 3	0.003 lbs/MMBtu	1.310
Stack serving 80 inch hot strip mill furnace numbers 3 and 4	0.003 lbs/MMBtu	3.980
Number 3 cold strip and numbers 5 and 6 annealing furnaces	0.003 lbs/MMBtu	0.987
Number 5 galvanizing line	0.003 lbs/MMBtu	0.44
Number 3 continuous anneal line	0.003 lbs/MMBtu	0.25
Open coil anneal	0.003 lbs/MMBtu	0.25
Plant 1 galvanizing lines	0.003 lbs/MMBtu	0.51
Normalizing line	0.003 lbs/MMBtu	0.13
(14) LTV STEEL CORPORATION		
Hot strip space heater numbers 1 through 28	0.003 lbs/MMBtu	0.250 TSP
Sheet mill number 2 portable annealing furnace numbers 1 through 23	0.003 lbs/MMBtu	1.100 TSP
Sheet mill number 2 space heater numbers 1 through 7	0.003 lbs/MMBtu	0.050 TSP
Sheet mill number 3 open coil annealing furnace numbers 1 through 3	0.003 lbs/MMBtu	0.031 TSP
Number 3 sheet mill annealing furnace numbers 1 through 7	0.003 lbs/MMBtu	0.071 TSP
Number 3 sheet mill annealing furnace numbers 1 through 11	0.003 lbs/MMBtu	0.520 TSP
Sheet mill number 2, annealing and galvanizing furnace numbers 2 through 5	0.003 lbs/MMBtu	1.280 TSP
Sheet mill number 2, CRSM boiler numbers 7 and 8	0.003 lbs/MMBtu	0.290 TSP
Number 2 cold reduced strip mill, number 2 galvanizing line, numbers 1 and 2 flame furnaces	0.003 lbs/MMBtu	0.500
Number 2 sheet mill galvanizers 1 and 2	0.003 lbs/MMBtu	0.265 TSP
(15) UNILEVER HPC, USA		
American hydrotherm boiler number 1	0.003 lbs/MMBtu	0.040
(16) NIPSCo–MITCHELL		
Number 9A gas turbine	0.003 lbs/MMBtu	0.660
(17) PRAXAIR		
Package boilers (two (2) units)	0.003 lbs/MMBtu	0.618
Plants numbers 6, 7, and 8 regenerator heaters	0.003 lbs/MMBtu	0.097
(18) UNION TANK CAR CO.		
Boiler house, north	0.003 lbs/MMBtu	0.110
Boiler house, south	0.003 lbs/MMBtu	0.110
Number 4 boiler	0.003 lbs/MMBtu	0.020
Number 8 boiler	0.003 lbs/MMBtu	0.010
North stress furnace	0.003 lbs/MMBtu	0.160

Stack serving paint oven unit numbers 1 through 5	0.003 lbs/MMBtu	0.060
South stress furnace	0.003 lbs/MMBtu	0.160
(19) U.S. GYPSUM COMPANY		
Each stack serving wallboard drying furnace, stacks B4, B5, and B6	0.003 lbs/MMBtu	0.068
~~(20) USS-Gary Works~~		
~~Electrogalvanizing boiler~~	~~0.003 lbs/MMBtu~~	~~0.110~~
~~Number 2 coke plant boiler house, boiler number 1~~	~~0.003 lbs/MMBtu~~	~~0.385~~
~~Number 2 coke plant boiler house, boiler number 2~~	~~0.003 lbs/MMBtu~~	~~0.385~~
~~Tin mill boiler number 5~~	~~0.003 lbs/MMBtu~~	~~0.480~~
~~Tin mill boiler number 1~~	~~0.003 lbs/MMBtu~~	~~0.240~~
~~Tin mill boiler number 2~~	~~0.003 lbs/MMBtu~~	~~0.240~~
~~Stack serving tin mill boiler numbers 3 and 4~~	~~0.003 lbs/MMBtu~~	~~0.830~~
~~160/210 inch plate mill, car bottom heat treating furnace~~	~~0.003 lbs/MMBtu~~	~~0.070~~
~~160/210 inch plate mill, car bottom normalizing furnace~~	~~0.003 lbs/MMBtu~~	~~0.070~~
~~160/210 inch plate mill, keep hot pits~~	~~0.003 lbs/MMBtu~~	~~0.090~~

(i) (Reserved)

(j) (Reserved)

(k) This subsection lists site-specific control requirements. For any facility with a compliance date after December 10, 1993, the company shall submit a schedule for meeting the final compliance date containing milestones for purchase and installation of the equipment and for the operational changes required to assure compliance with the applicable standard prior to the final compliance date. The schedule shall be submitted to the department and to U.S. EPA prior to December 10, 1993. A violation of any milestone in the submitted schedule constitutes a violation of this rule. The sources listed shall meet the requirements as follows:

(1) The following **requirements** for Cerestar USA, Incorporated:

(A) Starch dryer number 1 shall be permanently shut down by December 31, 1993.

(B) Starch dryer number 2 stack height shall be increased from eighteen and three-tenths (18.3) meters to thirty (30) meters by December 10, 1993.

(C) Dextrin manufacturing systems 1 through 7 shall be permanently shut down by December 31, 1993.

(D) After December 10, 1993, Cerestar USA, Incorporated shall achieve compliance with the respective limits in subsection (d). The following mass emission limits shall be applicable until December 10, 1993:

Process	Units	Emission Limit
Each stack serving dextrin manufacturing equipment systems numbers 1 through 7	1.000 lbs/ton	0.50 lbs/hr
Starch flash feed dryer number 1 scrubber	0.086 lbs/ton	8.69 TSP

(2) American Steel Foundry–Hammond. The PM_{10} mass emission limit in subsection (d) for coil spring grinder numbers 3-0244, 3-0386, 3-0389, 3-0247, 3-0385, 3-0295, and 3-0233 shall be complied with no later than December 31, 1993, and shall be maintained thereafter. The source shall either improve the efficiency of the existing control equipment or replace the existing control equipment with higher efficiency control equipment to comply with emission limits specified in subsection (d).

(3) State Line Energy, LLC. Units 3 and 4 shall comply with:

(A) a thirty percent (30%), six (6) minute average opacity limit until December 31, 1992;

(B) a twenty-five percent (25%), six (6) minute average opacity limit from January 1, 1993, to December 31, 1993; and

(C) a twenty percent (20%), six (6) minute average opacity limit after December 31, 1993.

(4) Hammond Group, Inc. (HGI)–Halox plant. The stack heights of stacks 17-S-25 and 17-S-40 shall be raised to twenty-one and three-tenths (21.3) meters above grade by December 10, 1993.

(5) The following for Inland Steel:

(A) Number 2 BOF facility roof monitor. The twenty percent (20%), three (3) minute average opacity standard in subsection (e) shall be achieved no later than December 31, 1994, and shall be maintained thereafter. Prior to December 31, 1994, the

opacity standard shall be the thirty percent (30%), six (6) minute average. Compliance with this limitation shall be determined by 40 CFR 60, Appendix A, Method 9*, except that the three (3) minute, twenty percent (20%) opacity standard shall be determined as an average of twelve (12) consecutive observations recorded at fifteen (15) second intervals.

(B) Numbers 8 and 11 coke batteries. Operation of the number 8 coke battery and its underfire stack and number 11 coke battery and its associated quench tower, underfire stack, and preheater stacks shall be permanently discontinued before December 31, 1992.

(C) Number 10 coke battery. After the shutdown of the number 8 coke battery, the electrostatic precipitator associated with the number 8 coke battery shall be connected to the number 10 coke battery prior to December 31, 1992.

(D) Numbers 6, 7, 9, and 10 coke batteries. These coke batteries and associated quench towers and underfire stacks shall not operate after December 31, 1994. Prior to December 31, 1994, these coke batteries shall meet the requirement of section 10.2 of this rule with the following exceptions:

(i) There shall be no visible emissions from more than ten percent (10%) of the standpipes on operating ovens on a battery.

(ii) Visible emissions shall not exceed twenty percent (20%) averaged over six (6) consecutive observations during any pushing operation.

(iii) Mass emissions from the coke battery underfire stacks shall not exceed fifty-thousandths (0.050) gr/dscf.

(E) Number 4 BOF facility roof monitor. The twenty percent (20%), three (3) minute average opacity standard in subsection (e) shall be achieved no later than December 31, 1994, and shall be maintained thereafter. Prior to December 31, 1994, the opacity standard shall be the twenty-five percent (25%), six (6) minute average.

(F) Number 7 blast furnace casthouse. Tapping emissions from the number 7 blast furnace casthouse shall be controlled by a hood vented to a baghouse on and after December 1, 1992. Canopy hoods shall be installed above each of the four (4) furnace tap holes. The hoods shall be ducted to a new three hundred seventy thousand (370,000) actual cubic feet per minute minimum design flow rate baghouse. Each hood shall be located just above the casthouse crane and extend via vertical sheeting to the casthouse roof. The system shall provide a minimum of one hundred eighty-five thousand (185,000) actual cubic feet per minute of air flow (fume capture) to each hood, when the corresponding tap hole is being drilled or plugged.

(G) Number 2 bloom mill soaking pits. The soaking pits shall not operate after December 31, 1992.

(H) Prior to December 31, 1994, Inland Steel shall comply with a thirty percent (30%), six (6) minute average opacity limit for the electric arc furnace roof monitor. On and after December 31, 1994, Inland Steel shall comply with the roof monitor opacity limit specified in subsection (e). Prior to December 31, 1994, Inland Steel shall do the following:

(i) Perform tests according to procedures developed in consultation with the department to establish process and control equipment operating procedures and to establish control system fan motor ampere and damper position or volumetric flow rates through each separately ducted hood and/or duct used to capture emissions during the electric arc furnace charging, tapping, and refining process.

(ii) Install the required monitoring equipment in consultation with the department regarding its accuracy and precision position.

(iii) Record the start time and duration of charging, tapping, and refining of each heat.

(I) After December 31, 1994, the sources shall comply with the respective limits contained in subsection (d). The following mass emission limits will be applicable until December 31, 1994:

Inland Steel Processes	Emission Limit (Units)	Emission Limit (lbs/hr)
Number 6 coke battery underfire stack	0.271 lbs/ton coal	9.840
Number 7 coke battery underfire stack	0.267 lbs/ton coal	15.580
Number 9 coke battery underfire stack	0.406 lbs/ton coal	19.180
Number 10 coke battery underfire stack	0.371 lbs/ton coal	27.81
Stack serving 21 inch bar mill reheat furnace numbers 1 and 2	0.29 lbs/MMBtu	12.95
Number 4 slabber soaking pit numbers 1 through 18 collective	0.0 lbs/MMBtu	0.0
Number 4 slabber soaking pit numbers 19 through 45 collective	0.031 lbs/MMBtu	9.190
Number 3AC station boiler numbers 301 through 304	0.023 lbs/MMBtu	20.45
Number 3AC station boiler number 305	0.023 lbs/MMBtu	6.82

(6) The following **requirements** for LTV Steel Corporation:

(A) Basic oxygen furnace facility roof monitor. The twenty percent (20%), three (3) minute average opacity standard in subsection (e) shall be achieved no later than December 10, 1993, and shall be maintained thereafter. Prior to December 10, 1993, the opacity standard shall be twenty percent (20%), except for one (1) three (3) minute average per hour.

(B) Number 4 blast furnace. Compliance with the opacity limit shall be achieved no later than February 1, 1994, and shall be maintained thereafter. Also, control equipment capable of capturing and collecting emissions generated at the east and west tilting runner spouts and tap holes shall be installed and operational by February 1, 1994.

(7) NIPSCo–Mitchell. Units 5 and 6 shall comply with the following:

(A) Thirty percent (30%), six (6) minute average opacity limit until December 31, 1992.

(B) Twenty-five percent (25%), six (6) minute average opacity limit from January 1, 1993, to December 10, 1993.

(C) Twenty percent (20%), six (6) minute average opacity limit after December 10, 1993.

(8) The following for USS-Gary Works:

(A) Numbers 15 and 16 coke batteries. The coke batteries and all associated operations shall not operate after the effective date of this section.

(B) Number 13 blast furnace casthouse roof monitor. The twenty percent (20%), six (6) minute average opacity standard shall be achieved no later than December 31, 1994, and shall be maintained thereafter. Prior to December 31, 1994, the blast furnace casthouse shall comply with a thirty percent (30%) opacity, six (6) minute rolling average standard.

(C) Number 1 basic oxygen furnace facility roof monitor. The twenty percent (20%), three (3) minute average opacity standard in subsection (c) shall be achieved no later than December 31, 1996, and shall be maintained thereafter. Prior to December 31, 1996, the following opacity standards shall apply:

(i) Prior to January 1, 1995, the instantaneous opacity shall not exceed thirty percent (30%) opacity except for an aggregate of six (6) minutes per hour. Twenty-four (24) instantaneous opacity readings greater than thirty percent (30%) within any sixty (60) minute period shall be considered a six (6) minute aggregate.

(ii) For the period of January 1, 1995, through December 31, 1995, the instantaneous opacity shall not exceed twenty-five percent (25%) opacity, except for an aggregate of six (6) minutes per hour.

(iii) For the period of January 1, 1996, through December 30, 1996, the instantaneous opacity shall not exceed twenty-five percent (25%) opacity, except for an aggregate of five (5) minutes per hour. Twenty (20) instantaneous opacity readings greater than thirty percent (30%) within any sixty (60) minute period shall be considered a five (5) minute aggregate.

(D) Number 2 QBOP facility roof monitor. The twenty percent (20%), three (3) minute average opacity standard in subsection (c) shall be achieved no later than December 31, 1994, and shall be maintained thereafter. Prior to December 31, 1994, the instantaneous opacity shall not exceed thirty percent (30%) opacity except for an aggregate of eight (8) minutes per hour. Thirty-two (32) instantaneous opacity readings greater than thirty percent (30%) within any sixty (60) minute period shall be considered an eight (8) minute aggregate.

(E) Number 2 coke plant boilers. Only four (4) of the number 2 coke plant boilers may operate using coal or coke oven gas at the same time. If more than four (4) boilers are in operation, all but four (4) shall use natural gas.

(F) Eighty-four (84) inch hot strip mill. Actual heat input derived from coke oven gas and fuel oil shall not exceed a total of four hundred seventy-seven million (477,000,000) British thermal units per hour for waste heat boiler number 1 and furnace numbers 1 and 2 combined and a total of five hundred seven million (507,000,000) British thermal units per hour for waste heat boiler 2 and furnaces 3 and 4 combined. The remainder of the actual heat input shall be obtained by burning natural gas. A total actual heat input shall not exceed four hundred forty million (440,000,000) British thermal units per hour for each furnace, one hundred seventy million (170,000,000) British thermal units per hour for waste heat boiler number 1, and two hundred million (200,000,000) British thermal units per hour for waste heat boiler number 2.

(G) Only two (2) of the three (3) sinter lines shall operate at any one (1) time. For each line, USS-Gary Works shall maintain the following records in regard to the sinter plant operation:

(i) Startup and shutdown time.

(ii) Average hourly production rate.

(iii) The cause of any malfunction and the correction taken.

(H) Number 2 coke plant boiler house boilers numbers 4, 5, and 6. A ninety (90) day written notice shall be given to the department and U.S. EPA in the event of switching fuels from gas to coal. In addition, continuous opacity emission monitors must be installed prior to the fuel switch.

(I) Beach iron dumping and process vessel maintenance activities subject to subsection (p)(3)(F)(i) and (p)(3)(F)(ii) shall comply with the applicable twenty percent (20%) opacity limitation no later than December 31, 1994. The schedule for compliance submitted by December 10, 1993, shall establish milestones that achieve final compliance as soon as practical, but no later than December 31, 1994.

(J) Number 5 quench tower will comply with the ninety-five percent (95%) baffle requirement under section 10.2(c)(7)(F) of this rule no later than December 10, 1993.

(l) The continuous compliance plan (CCP) for sources listed in subdivisions (1) through (21) shall contain information on the facilities included in subsections (d) and (e). The following sources shall submit a CCP to the department by December 10, 1993:

(1) American Steel Foundries–East Chicago.

(2) American Steel Foundry–Hammond.

(3) BP Products North America Inc.

(4) Bucko Construction.
(5) Cerestar USA, Incorporated.
(6) Globe Industries.
(7) Hammond Group, Inc. (HGI).
(8) Harbison Walker Refractories, Hammond Works.
(9) Inland Steel.
(10) LTV Steel Corporation.
(11) Marblehead Lime Company.
(12) Marport Smelting.
(13) National Recovery Systems.
(14) NIPSCo–Mitchell.
(15) Reed Minerals.
(16) Rhodia, Inc.
(17) State Line Energy, LLC.
(18) Unilever HPC, USA.
(19) U.S. Gypsum Company.
(20) USS–Gary Works.
(21) A CCP shall also be submitted by any source in Lake County for facilities that meet the following conditions:
(A) Boilers with heat input capacity equal to or greater than twenty-five million (25,000,000) British thermal units per hour, singly or in combination, that vent through a single stack. Facilities, including boilers and reheat furnaces, configured to burn only natural gas, blast furnace gas, or coke oven gas, or a combination of these gases, are exempt.
(B) Facilities that perform manufacturing operations in a building or structure such that the total uncontrolled PM_{10} emissions from all such operations amount to ten (10) tons per year or more and that could potentially escape into the atmosphere through roof vents and other openings. The uncontrolled PM_{10} emissions shall be estimated with AP-42, "Compilation of Air Pollutant Emission Factors, Volume I, (Stationary Point and Area Sources)", Fifth Edition, January 1995*, Supplements A through G, December 2000* emission factors or other documentable emission factors acceptable to the commissioner and U.S. EPA.
(C) Each facility, not otherwise required to submit a CCP in accordance with this subsection, with uncontrolled PM_{10} or TSP emissions that may exceed one hundred (100) tons per year based on eight thousand seven hundred sixty (8,760) hours of operation and AP-42 emission factors or other documentable emission factors acceptable to the commissioner and U.S. EPA.

(m) The CCP shall contain, for the facilities specified in subsection (l), documentation of operation and maintenance practices of process operations and any particulate matter control equipment existing or required to be installed, replaced, or improved by subsection (k) that are essential to maintaining compliance with the mass and opacity limits specified in subsections (d) and (e) and 326 IAC 5-1.

(n) The CCP shall include the following:
(1) A list of the processes and facilities at the source.
(2) A list of the particulate matter control equipment associated with the processes and facilities listed in subsection (l).
(3) The process operating parameters critical to continuous compliance with the applicable PM_{10} or TSP mass and opacity limits, including applicable specific requirements listed in subsection (p).
(4) The particulate matter control equipment operating parameters critical to continuous compliance with the applicable PM_{10} or TSP mass and opacity including applicable requirements listed in subsection (q).
(5) The specific monitoring, recording, and record keeping procedures for process and control equipment for each facility in the CCP specified in subdivisions (1) and (2).
(6) The procedure used to assure that adequate exhaust ventilation is maintained through each duct at facilities where emissions are captured by a collection hood and transported to a control device.

(o) A CCP for a source to which subsection (k) applies shall contain a schedule for complying with the requirements of subsection (k). The schedule shall list specific compliance dates for the following actions:
(1) Submittal of plans.
(2) Start of construction.
(3) Completion of construction.
(4) Achieving compliance.
(5) Performing compliance tests.

(6) Submitting compliance test results.

(p) A source or facility to which subsection (l) applies and which belongs to any source category listed in this subsection shall include the following information or applicable procedures, or commit to the following actions, in its CCP:

(1) For lime plants, monitor opacity at the kilns and control system vents during normal operation of the kiln with a continuous emission monitor or through self-monitoring of opacity. 40 CFR 60, Appendix A, Method 9* should be used to determine opacity if the facility is controlled by a positive pressure fabric filter.

(2) For petroleum refineries, continuously monitor opacity of exhaust gases and monitor the coke burn-off rate in pounds per hour from fluid catalytic cracking unit catalyst regenerators.

(3) Steel mill CCPs shall include, as a minimum, the following:

(A) Basic oxygen process (BOP, BOF, QBOP), including the following:

(i) Describe the capture and control devices used to control particulate emissions from each phase of the steel production cycle, including, **but not limited to,** the furnace, hot metal transfer, hot metal desulfurization, and kish removal. The description shall include the locations within the facility of these operations in relation to capture hoods, control devices, roof vents, and other building openings.

(ii) Describe any fume suppression system, including, **but not limited to,** the process or emission point being controlled, the location within the facility, the inert gas or steam application rate, and the monitoring method. As used in this item, "fume suppression system" means the equipment comprising any system used to inhibit the generation of emissions from steelmaking facilities with an inert gas, flame, or steam blanket applied to the surface of molten iron or steel.

(iii) Describe the procedure for recording furnace charging and tapping time, amount of throughput, and amount of steel produced.

(iv) Describe the off-gas system leak detection and repair record keeping practices.

(v) Describe the procedures used to minimize dirt and debris accumulation on the facility floor.

(vi) Describe practices that reduce PM_{10} and TSP emissions escaping the primary or secondary hood during scrap charging and hot metal charging tapping steel and dumping slag.

(vii) At least monthly, inspect the operational status of the following elements of the capture system **and maintain records of the inspections and any repairs:**

(AA) Pressure sensors.

(BB) Dampers.

(CC) Damper switches.

(DD) The hood and ductwork for the presence of holes.

(EE) Ductwork for accumulation of dust.

(FF) Fans for erosion.

~~Maintain records of the inspections and any repairs.~~

(B) Electric arc furnace, including the following:

(i) List the furnace operating sequences to be followed in case of multivessel operation. Describe the capture and control devices used to control particulate emissions in each phase of the steel production cycle, including, **but not limited to,** exhaust rate and dampers, blast gates, instrumentation operation, and control. Include a drawing that shows:

(AA) the location of the furnace within the facility in relation to capture hoods and control devices, roof vents, and other building openings; and

(BB) the location of other processes within the facility that have potential to generate emissions, including, **but not limited to,** casting and ladle repair.

(ii) Describe the procedure for recording the following:

(AA) Time of furnace charging, furnace melting, and furnace refining.

(BB) Tapping start and stop times.

(CC) Charge weight for each heat.

(DD) Tap weight for each heat.

(iii) At least monthly, inspect the operational status of the following elements of the capture system **and maintain records of the inspections and any repairs:**

(AA) Pressure sensors.

(BB) Dampers.

(CC) Damper switches.

(DD) Hood and ductwork for the presence of holes.

(EE) Ductwork for accumulation of dust.

(FF) Fans for erosion.

~~Maintain records of the inspections and any repairs.~~

(iv) Describe procedures used to minimize dirt and debris accumulation on the facility floor.

(v) Once per heat, either check and record the control system fan motor ampere and damper position or monitor flow rate through each separately ducted hood and/or duct used to capture emissions from the electric arc furnace operation.

(vi) Take visible emission readings of the direct shell evacuation system and the roof monitor at least once a day. The readings shall be taken during one (1) single steel production cycle and will be concurrent with the observations in subsection (k)(5)(H)(iii). The opacity observations shall be taken according to 40 CFR 60, Appendix A, Method 9* and consist of at least one (1) six (6) minute observation each during charging and tapping and three (3) six (6) minute observations during melting and refining.

(vii) Report to the department on a quarterly basis control system fan motor amperage values that exceed fifteen percent (15%) of the value or operation at volumetric flow rates lower than those established during the performance test in subsection (k)(5)(H)(i). Operation above these values may be considered as unacceptable operation of the electric arc furnace equipment and the emissions capture and control system by the commissioner. Unless alternative values are established according to the procedures prescribed in subsection (l).

(viii) Keep a record of any process and control equipment upsets, malfunctions, or activities within the electric arc furnace facility that may have resulted in excessive emissions. The records shall consist of the nature of event, time, and duration.

(C) Iron production that includes a blast furnace shall comply with the following:

(i) Describe procedures, including, **but not limited to,** frequency, for inspection of the following elements of a capture system **and maintain records of the inspections, maintenance, and any repairs made:**

(AA) Pressure sensors.

(BB) Dampers.

(CC) Damper switches.

(DD) Hood and ductwork for the presence of holes.

~~Maintain records of the maintenance and any repairs made.~~

(ii) Describe procedures used to minimize dirt and debris accumulation on the facility floor.

(iii) Describe any fume suppression system, including, **but not limited to,** the process or emission point being controlled, the location, and the inert gas or steam application rate and the monitoring method. Fume suppression system means the equipment comprising any system used to inhibit the generation of emissions from steelmaking facilities with an inert gas, flame, or steam blanket applied to the surface of molten iron or steel.

(iv) Describe the record keeping for the following elements of the iron production cycle:

(AA) Time of hole drilling.

(BB) Time of tapping.

(CC) Time of hole plugging.

(v) Describe the blast furnace inspection, repair, and maintenance schedule for the following elements:

(AA) Tuyres.

(BB) Bleeder valves.

(CC) Large and small bells.

(DD) Uptakes and downcomers (to minimize backdrafting).

(EE) Standby devices.

(vi) Describe the procedures used to inspect and operate the blast furnace gas cleaning equipment, ~~such as~~ **including, but not limited to,** dust catchers and scrubbing equipment to assure operation within design parameters.

(D) Sinter production shall comply with the following:

(i) Describe routine startup and shutdown procedures and other work practices which are followed to reduce emissions and equipment malfunctions.

(ii) Describe procedures for inspection of equipment to identify areas which may affect particulate emissions, including, **but not limited to,** the following:

(AA) Points of wear.

(BB) Distorted grate bars.

(CC) Leaking machine seals.

(DD) Holes in ducts.

(EE) Holes in flapper valves.

(iii) Describe procedures for monitoring mechanical and electrical inspection records.

(iv) Describe procedures used to minimize dirt and debris accumulation on the facility floor.

(v) Describe procedures for monitoring burden parameters, including, **but not limited to,** base to acid ratio and hydrocarbon content.

(vi) Describe the routine for plant operation during equipment failure, ~~such as~~ **including, but not limited to,** screening station failure.

(vii) At least monthly, inspect the operational status of the following elements of the capture system **and maintain records of the inspections and any repairs:**

(AA) Pressure sensors.

(BB) Dampers.

(CC) Damper switches.

(DD) Hood and ductwork for the presence of holes.

(EE) Ductwork for accumulation of dust.

(FF) Fans for erosion.

~~Maintain records of the inspections and any repairs.~~

(E) Coke production shall comply with the following:

(i) Describe operating and maintenance practices used to minimize emissions from charging doors, charge port lids, offtakes, standpipes, gooseneck caps and gas collector mains, pushing, underfire stacks, and quenching, including, **but not limited to,** quench water dissolved solids control. The documentation shall include the following operating practices:

(AA) Use of jumper pipe during charging.

(BB) Procedure for worker's coordination, training, and communication.

(CC) Luting material used.

(DD) Periodic engineering evaluations to determine improvements needed.

(EE) Aspiration practices during charging, including, **but not limited to,** aspiration rate and adjustment.

(ii) Describe the routinely available inventory of spare parts and equipment, including, **but not limited to,** luting compounds, doors, and mobile scrubber cars.

(F) Waste disposal and recycling practices of iron and steel scrap and other metallic scrap shall comply with the following:

(i) Provide a description of the routine activities involving disposal and reclamation of iron and steel. The visible emissions from such activities shall not exceed twenty percent (20%) opacity on a three (3) minute average as measured by 40 CFR 60, Appendix A, Method 9*. The opacity shall be determined as an average of twelve (12) consecutive observations recorded at fifteen (15) second intervals.

(ii) Maintenance of process vessels, for example, pugh ladles, shall be performed in enclosed structures. The visible emissions from such structures shall not exceed twenty percent (20%) opacity on a three (3) minute average as measured by 40 CFR 60, Appendix A, Method 9*. The opacity shall be determined as an average of twelve (12) consecutive observations recorded at fifteen (15) second intervals.

(iii) Emissions from all steel scrap burning or cutting and oxygen lancing operations shall not exceed twenty percent (20%) opacity on a three (3) minute average as measured by 40 CFR 60, Appendix A, Method 9*. The opacity shall be determined as an average of twelve (12) consecutive observations recorded at fifteen (15) second intervals.

(G) Visible emission evaluation plans shall comply with the following:

(i) Within sixty (60) days of the effective date of this section, each steel mill shall submit a plan to conduct visible emissions evaluations per the approved test method or procedures to determine compliance with the applicable opacity standard. The plan shall specify the frequency of visible emissions evaluations at the operations included in clauses (A) through (F). The plan shall include charging, pushing, lids and offtakes, doors, standpipes, and gas collector mains at coke production operations and lime plants.

(ii) If the plan specifies that the duration of readings is less than one (1) hour per day at each facility, then the plan shall include the basis for less frequent evaluations.

(iii) The department shall disapprove the plan if it does not include all facilities or if the proposed duration and frequency will not provide for a reasonable assessment of compliance.

(iv) Upon approval of a steel mill's plan by the department, the visible emissions evaluations shall commence and the data submitted to the department within one (1) month of the end of the calendar quarter.

(v) The plan may be revised with department approval at any time.

(4) Fuel combustion boilers, as described in subsection (l)(26)(A), shall comply as follows:

(A) The requirements of this subdivision shall not relax the fuel monitoring and reporting requirements of 326 IAC 7-1.1-1 for the sources this section applies to.

(B) Affected sources shall maintain records of the following information:

(i) Operational status of each facility for each day.

(ii) The daily measurements for each facility of the type of fuel used, amount of each type of fuel used, and heat content of each type of fuel used.
(iii) The TSP or PM_{10} emission factors for each type of fuel to be used as estimated by the AP-42 or stack test method.
(iv) The method used to monitor the fuel amount and heat content in addition to the frequency.
(v) The control efficiency of the particulate control device and the method of determination.
(vi) Average daily PM_{10} emissions (or TSP if applicable) for each facility, expressed in pounds per million British thermal units.

(C) The following guidance ~~may~~ **shall** be used to estimate emissions:
(i) For heat content, AP-42, Volume 1, Appendix A, Table A-3, "Typical Parameters of Various Fuels" Fifth Edition, January 1995*, Supplements A through G, December 2000*.
(ii) For emission factors (TSP or PM_{10}), EPA 450/4-90-003, "AIRS Facility Subsystem Source Classification Codes and Emission Factors Listing for Criteria Air Pollutants"**.
(iii) For control equipment efficiency, manufacturer's warranty or as determined by source.
(iv) Sources may substitute other site-specific values for the values as indicated if they can be shown to be acceptable to the department.

(q) This subsection concerns particulate matter control equipment operation and maintenance requirements. A CCP shall provide that the following control equipment related information will be maintained at the source's property and will be available for inspection by department personnel:
(1) Startup, shutdown, and emergency shutdown procedures.
(2) Sources shall notify the department fifteen (15) days in advance of startup of either new control equipment or control equipment to which major modifications have been made.
(3) Manufacturer's recommended inspection procedures, preventive and corrective maintenance procedures, and safety devices and procedures, such as sensors, alarm systems, and bypass systems. If manufacturer's recommendations are not available, procedures shall be developed by the source.
(4) Contents of the operator's training program and the frequency with which the training is held.
(5) A list of spare parts available at the facility.
(6) A list of control equipment safety devices, for example, high temperature sensors and alarm systems, exhaust gas stream bypass system, or safety interlock system.
(7) Monitoring and recording devices and/or instruments to monitor and record control equipment operating parameters specified in subsection (n)(4).

(r) Particulate matter control equipment operation, recording, and inspection procedure requirements shall be as follows:
(1) A CCP for a facility controlled with a baghouse shall include the recording, inspection, and maintenance procedures to be consistent with the requirements of subsection (m), ~~such as,~~ **including, but not limited to,** the following:
(A) Operating parameters, ~~such as~~ **including, but not limited to,** the following:
(i) Pressure drop across the baghouse.
(ii) Gas flow rate at baghouse inlet.
(iii) Gas temperatures at inlet.
A CCP shall identify the monitors and instrumentation, and their location, accuracy, precision, and calibration frequency. A CCP shall also include a description of any visible emission evaluation program.
(B) Baghouse cleaning system. A complete description of the cleaning system, including, **but not limited to,** such information as intensity, duration, frequency, and method of activation.
(C) Baghouse inspection and maintenance schedule. The inspection schedule logs or records shall be available for inspection by the department for up to one (1) year after the date of inspection. The inspection shall include the activities and frequency of the activities. A source may request an alternative schedule based on manufacturer's recommendations or alternatives documented by the company. The revised schedule must be approved by the department. Inspections shall include the following:
(i) Daily inspections shall include the following:
(AA) Pressure drop.
(BB) Fan amperage.
(CC) Cleaning cycle.
(DD) Compressed air on pulse jet baghouses for values outside of the operating ranges.
(EE) Dust discharge equipment for proper operation.
(FF) General check for abnormal audible and visual conditions.

(ii) Weekly inspections of the following:
(AA) Moving parts on discharge system.
(BB) Bypass and isolation damper operation.
(CC) Bag tension.
(DD) Compressed air lines, oilers, and filters.
(EE) Manometer lines.
(FF) Temperature indicating equipment.
(GG) Bag cleaning sequence.
(HH) Drive components on fans.
(iii) Monthly inspections of the following:
(AA) Bag seating condition.
(BB) Moving parts on shaker baghouses.
(CC) Fan corrosion and blade wear.
(DD) Hoses and clamps.
(EE) Bags for leaks and holes.
(FF) Bag housing for corrosion.
(iv) Quarterly inspections of the following:
(AA) Bags.
(BB) Ducts for dust build-up.
(CC) Damper valves for proper setting.
(DD) Door gaskets.
(EE) Baffle plate for wear.
(v) Annual inspection of the following:
(AA) Welds and bolts.
(BB) Hoppers for wear.
(CC) Cleaning parts for wear.

(2) A CCP for a facility controlled by an electrostatic precipitator (ESP) shall include recording, inspection, and maintenance procedures to be consistent with the requirements of subsection (m), ~~such as~~ **including, but not limited to,** the following:

(A) Operating parameters, ~~such as~~ **including, but not limited to,** the following:
(i) Gas flow rate.
(ii) Temperature.
(iii) Type and rate of gas conditioning agents used for resistivity control or resistivity measurements.
(iv) Power input at each section of the ESP. A CCP shall identify monitors and instrumentation and specify location, accuracy, precision, and calibration frequency. A CCP shall also include a description of any visible emissions evaluation program.

(B) ESP inspection and maintenance schedule. The inspection schedule logs or records shall be available for inspection by the department for up to one (1) year after the date of inspection. The inspection shall include the activities and frequency of the activities. A source may request an alternative schedule based on manufacturer's recommendations or alternatives documented by the company. The revised schedule shall be approved by the department. Inspections shall include the following:
(i) Daily inspection of the following:
(AA) Fan amperage.
(BB) Temperature.
(CC) Gas conditioning agent flow rate or resistivity.
(DD) Electrical readings for values outside the operating range.
(EE) Hoppers and dust discharge system for proper operation.
(FF) Transformer-rectifier enclosures and bus ducts for abnormal arcing.
Corrective actions taken, if any, shall be recorded.
(ii) Weekly inspection of the following or as per manufacturer's recommendations:
(AA) Rapper operation.
(BB) Control set interiors.
(iii) Monthly inspection of the following:
(AA) Fans for noise and vibration.
(BB) Hopper heaters.
(CC) Hopper level alarm operation.
(iv) Quarterly inspection of the following:

(AA) Check rapper and vibrator switch contacts.
(BB) Access door dog bolt and hinges.
(CC) Interlock covers.
(DD) Test connectors.
(EE) Exterior for visual signs of deterioration.
(FF) Abnormal vibration, noise, and leaks.

(v) Semiannual inspection of the following, or as per manufacturer's recommendations:
(AA) T-R liquid and surge arrestor spark gap.
(BB) Conduct internal inspection.
(CC) Top housing or insulator compartment and all electrical insulating surfaces, and correct any defective alignment.

(vi) Annual inspection of the following:
(AA) Tightness of all electrical connections.
(BB) Operation of switchgear.
(CC) Rapper insulator connections.
(DD) Observe and record areas of corrosion.

(3) A CCP for a facility controlled by a scrubber shall include the recording, inspection, and maintenance procedures to be consistent with the objectives of subsection (m), ~~such as,~~ **including, but not limited to,** the following:

(A) Operating parameters, ~~such as~~ **including, but not limited to,** the following:
(i) Gas flow rate.
(ii) Inlet and outlet temperatures of gas to and from scrubber.
(iii) Liquid flow rate to scrubber.
(iv) Pressure drop across scrubber.
(v) pH of liquid to scrubber.
(vi) Fan and pump currents.

A CCP shall specify the location, accuracy, precision, and calibration frequency of monitors and instrumentation.

(B) Scrubber inspection and maintenance schedule. The inspection schedule logs or records shall be available for inspection by the department for up to one (1) year after the date of inspection. The inspection shall include the activities and frequency of the activities. A source may request an alternative schedule based on manufacturer's recommendations or alternatives documented by the company. The revised schedule shall be approved by the department. Inspections shall include the following:

(i) Daily inspection of the following:
(AA) Scrubbing liquid flow rates to scrubber.
(BB) Pressure drop across scrubber.
(CC) Fan and pump amperages for values outside the operating range.

Corrective actions taken shall be recorded.

(ii) Monthly inspection of the following:
(AA) Seals for abrasion.
(BB) Corrosion and leaks.
(CC) Fans for abrasion, corrosion, and solids build-up.
(DD) Pipes for abrasion, corrosion, and plugging.
(EE) Throat wear in the venturi scrubber.
(FF) Sensors, alarm systems, and bypass devices for proper operation.
(GG) Entrainment separator for blockage.
(HH) Spray nozzles for plugging or excessive wear.

(s) The department shall review the CCP. The department may at any time request, in writing, any of the following:
(1) A CCP revised to include additional documentation or practices as needed to allow the department to verify that operation and maintenance practices critical to continuous compliance with the applicable mass and opacity limits are being followed.
(2) A compliance test conducted with the compliance test methods specified in this section if the department determines that the procedures specified in the CCP are not being followed or are inadequate to assure continuous compliance. The compliance test may consist of a series of opacity measurements of frequency and duration specified by the department or a stack test. The department may request that information be collected during the test to determine proper operation and maintenance procedures needed to assure continuous compliance with applicable mass and opacity limits.

(t) The source shall respond, in writing, within thirty (30) days of a request per subsection (s). The source shall either provide an

expeditious schedule, not to exceed sixty (60) days, for providing the information requested by the department or petition the department for an alternative to the request. A schedule for completion of an opacity compliance test shall not exceed thirty (30) days from the department's request. A source may petition the department for an alternative schedule based on practical problems in meeting the request.

(u) The source shall update the CCP, as needed, retain a copy of any changes and updates to the CCP on the property, and make the updated CCP available for inspection by the department. The source shall submit the updated CCP, if required, to the department within thirty (30) days of the update.

(v) Failure to submit a CCP, maintain all information required by the CCP on plant property, or submit a required update to a CCP is a violation of this section. Failure to respond to a request by the department under subsection (s) is a violation of this section. The department may notify a source in writing of noncompliance with an action or procedure specified within a CCP and require that the source conduct a compliance test. If the compliance test demonstrates noncompliance with the applicable particulate matter or opacity limit, both the findings of noncompliance of both the CCP and the compliance test shall be considered as violations of the applicable mass or opacity limit. A violation of an applicable particulate matter or opacity limit of this section, based either on a compliance test performed by the source or by observations or tests conducted by the department, is a violation of this section.

*The following are incorporated by reference: 40 CFR 51, Appendix M, Methods 201, 201A, and 202; 40 CFR 60, Appendix A, Methods 1, 1A, 2, 2A, 2C, 2D, 3, 4, 5, 5A, 5D, 5E, 8, 9, ~~and~~ 17, and AP-42, including supplements A through G. Copies are available from the Government Printing Office, 732 North Capitol Avenue NW, Washington, D.C. 20401 or are available for review and copying at the Indiana Department of Environmental Management, Office of Air Quality, Indiana Government Center-North, 100 North Senate Avenue, Indianapolis, Indiana 46204.

**EPA 450/4-90-003, "AIRS Facility Subsystem Source Classification Codes and Emission Factors Listing for Criteria Air Pollutants" is incorporated by reference and is available from U.S. EPA, Office of Air Quality Planning and Standards, Research Triangle Park, North Carolina 27711 or the Indiana Department of Environmental Management, Office of Air Quality, Indiana Government Center-North, 100 North Senate Avenue, Indianapolis, Indiana 46204. *(Air Pollution Control Board; 326 IAC 6-1-10.1; filed May 12, 1993, 11:30 a.m.: 16 IR 2368; filed Mar 2, 1998, 8:30 a.m.: 21 IR 2354; filed May 13, 1999, 12:00 p.m.: 22 IR 3047; filed Dec 14, 2000, 5:07 p.m.: 24 IR 1308; errata filed May 1, 2001, 3:24 p.m.: 24 IR 2709; filed Nov 8, 2001, 2:02 p.m.: 25 IR 716; filed Jul 26, 2002, 9:48 a.m.: 25 IR 4077)*

SECTION 2. 326 IAC 6-1-10.2 IS AMENDED TO READ AS FOLLOWS:

326 IAC 6-1-10.2 Lake County PM_{10} coke battery emission requirements
Authority: IC 13-14-8; IC 13-17-3-4; IC 13-17-3-11
Affected: IC 13-15; IC 13-17

Sec. 10.2. (a) The provisions of this section shall apply to those sources located in Lake County which include a coke battery.

(b) The following definitions shall apply to this section:
326 IAC 1-2-10 "Charging" definition
326 IAC 1-2-11 "Charge port" definition
326 IAC 1-2-16 "Coke oven battery" definition
326 IAC 1-2-17 "Coke oven topside" definition
326 IAC 1-2-18 "Coke-side" definition
326 IAC 1-2-31 "Gas collector main" definition
326 IAC 1-2-32.1 "Gooseneck cap" definition
326 IAC 1-2-34.1 "Jumper pipe" definition
326 IAC 1-2-35 "Larry car" definition
326 IAC 1-2-49 "Offtake piping" definition
326 IAC 1-2-50 "Oven door" definition
326 IAC 1-2-60 "Pushing" definition
326 IAC 1-2-61 "Push-side" definition
326 IAC 1-2-62.1 "Quench car" definition

326 IAC 1-2-63 “Quenching” definition
326 IAC 1-2-63.1 “Quench reservoir” definition
326 IAC 1-2-63.2 “Quench tower” definition
326 IAC 1-2-77 “Standpipe lid” definition
326 IAC 1-2-87 “Underfire” definition.

(c) With the exceptions noted in this subsection, the coke batteries in Lake County shall comply with the following emission limits by December 10, 1993:

(1) Single-pass cap for oven door emissions. No visible emissions shall be permitted from more than ten percent (10%) of the observed coke oven doors on any coke oven battery. The number of coke-side doors and push-side doors shall be counted in determining compliance with this emission limit. Doors of ovens which are out of service, either temporarily or permanently, shall not be counted. A push door and a chuck door shall be counted as one (1) door. Compliance with this emission limit shall be determined in accordance with the procedure described in 326 IAC 11-3-4(c).

(2) Charging emissions. No visible emissions shall be permitted from the charging system for more than a cumulative total of one hundred twenty-five (125) seconds during five (5) consecutive charging periods. For the purpose of this subdivision, “charging system” means the equipment required to add coal to a coke battery. This includes a larry car, charge ports, jumper pipe, and offtake pipe. Compliance with this emission limit shall be determined in accordance with the procedure contained in 326 IAC 11-3-4(a).

(3) Pushing emissions. The following emission limits shall apply during pushing operations:

(A) The opacity of emissions from the coke-side of an oven to be pushed, before the first movement of the coke from the oven to the coke car begins, shall not exceed twenty percent (20%). The opacity shall be determined on an instantaneous basis at the top of the battery. The observer shall be positioned outside of the quench car rails.

(B) The opacity of emissions during the pushing operation shall not exceed twenty percent (20%). The pushing operation shall be considered to begin with the first movement of coke from the oven into the coke car and to end when the quench car enters the quench tower. The opacity shall be determined using 40 CFR 60, Appendix A, Method 9*, except that the readings shall be taken at fifteen (15) second intervals. Six (6) consecutive readings shall be averaged to determine the opacity. The observer shall only use those backgrounds that are above the elevation of the battery surface. If this condition cannot be met for six (6) consecutive readings, then the opacity shall be determined using the lesser number of consecutive readings.

(C) The particulate emissions from the control device stack shall not exceed four-hundredths (0.04) pounds per ton of coke pushed. Compliance with this emission limit shall be determined by 40 CFR 60, Appendix A, Method 5*.

(4) Charge port lid emissions. No visible emissions shall be permitted from more than three percent (3%) of the total charge port lids on operating ovens of a coke oven battery. Compliance with this emission limit shall be determined in accordance with 326 IAC 11-3-4(b).

(5) Offtake piping emissions. No visible emissions shall be permitted from more than five percent (5%) of the total offtake piping on any coke oven battery. At no time shall the visible emissions from any gooseneck cap opening exceed twenty percent (20%). An exclusion from this opacity limit shall be allowed for two (2) minutes after a gooseneck cap is opened. The opacity shall be determined on an instantaneous basis. Compliance with this emission limit shall be determined in accordance with 326 IAC 11-3-4(b).

(6) Gas collector main emissions. No visible emissions shall be permitted from the gas collector main. Compliance with this emission limit shall be determined in accordance with 326 IAC 11-3-4(e). Caps on the main shall be exempt from this requirement during maintenance.

(7) Quenching emissions at USS. At a minimum, the following procedures and practices shall be followed:

(A) The quench water, as applied to the coke, shall not exceed one thousand five hundred (1,500) milligrams per liter dissolved solids.

~~(B) One (1) fifty (50) milliliter aliquot sample of quench water will be collected during each quenching operation at each quenching location by an automatic sampling system and composited into a refrigerated container. At the end of a twenty-four (24) hour sampling period, a composite sample consisting of a total of eighty-five (85) to two hundred (200) aliquots, depending upon the number of quenches performed, will have been collected at each location. The composite sample will be mixed and a representative sample obtained for analyses. The composite quench water sample from each location shall be analyzed using Method 2540C as found in Standard Methods for the Examination of Water and Wastewater, 17th Edition, published by the American Public Health Association**.~~

~~(C) The automatic sampling system will draw fifty (50) milliliter aliquots from the header which feeds process water to the quench tower reservoirs during each quenching operation.~~

~~(D) The source shall submit results of the quench water analysis monthly to the office of air management.~~

~~(E)~~ **(B)** A source shall submit the following information regarding its quenching operation in its CCP required to be submitted by section 10.1(l) of this rule:

(i) The source of quench water, for example, Lake Michigan water only, or a mixture of Lake Michigan water, spent quench water, ~~and~~ process water, **and miscellaneous sources of nonprocess water.**

(ii) The volume of quench water and the proportion of each source of water.

~~(F)~~ **(C)** All coke oven towers shall be equipped with baffles. Baffles shall cover ninety-five percent (95%) or more of the cross-sectional area of the exhaust vent or stack for straight quench towers and must be maintained in operable condition. For offset quench towers numbers 2 and 3 at USSteel, the number and arrangement of baffles in the tower shall be maintained as designed. The source shall submit quench tower drawings showing baffle arrangement to the department and the U.S. EPA on or before December 10, 1993. Compliance with the quench tower baffle requirement shall be determined by comparison of the number and arrangement of baffles with the submitted plans.

(8) Underfire emissions requirements shall be as follows:

(A) Particulate emissions from underfire stacks shall be limited by the emission limitations contained in section 10.1(d) of this rule.

(B) Visible emissions from underfire stacks shall comply with the requirements set forth in 326 IAC 5-1-2.

(9) Precarbonization emissions requirements shall be as follows:

(A) Particulate emissions from precarbonization towers shall be limited by the emission limitations contained in section 10.1(d) of this rule.

(B) Visible emissions from precarbonization towers shall comply with the requirements set forth in 326 IAC 5.

(d) The coke batteries at Inland Steel, in lieu of subsection (c)(3), (c)(5), and (c)(8) above, shall comply with the requirements of section 10.1(k)(5)(D) of this rule.

***This document is incorporated by reference.** Copies ~~of the Code of Federal Regulations have been incorporated by reference and are available~~ **may be obtained** from the Government Printing Office, **732 North Capitol Street NW,** Washington, D.C. ~~20402~~ **20401** or **are available for review and copying at** the Indiana Department of Environmental Management, Office of Air ~~Management.~~ **Quality, Indiana Government Center-North, Tenth Floor, 100 North Senate Avenue, Indianapolis, Indiana 46204.**

~~**These documents have been incorporated by reference and are available from the Indiana Department of Environmental Management, Office of Air Management, 105 South Meridian Street, Indianapolis, Indiana 46225.~~ *(Air Pollution Control Board; 326 IAC 6-1-10.2; filed May 12, 1993, 11:30 a.m.: 16 IR 2391)*

Notice of Public Hearing

Under IC 4-22-2-24, IC 13-14-8-6, and IC 13-14-9, notice is hereby given that on June 4, 2003 at 1:00 p.m., at the Indiana Government Center-South, 402 West Washington Street, Conference Center Room C, Indianapolis, Indiana the Air Pollution Control Board will hold a public hearing on proposed amendments to 326 IAC 6-1-10.1 and 326 IAC 6-1-10.2.

The purpose of this hearing is to receive comments from the public prior to final adoption of these rules by the board. All interested persons are invited and will be given reasonable opportunity to express their views concerning the proposed amendments. Oral statements will be heard, but for the accuracy of the record, all comments should be submitted in writing.

Additional information regarding this action may be obtained from Chris Pedersen, Rule Development Section, Office of Air Quality, (317) 233-6868 or (800) 451-6027 (in Indiana).

Individuals requiring reasonable accommodations for participation in this event should contact the Indiana Department of Environmental Management, Americans with Disabilities Act coordinator at:

Attn: ADA Coordinator
Indiana Department of Environmental Management
100 North Senate Avenue
P.O. Box 6015
Indianapolis, Indiana 46206-6015

or call (317) 233-0855. (TDD): (317) 232-6565. Speech and hearing impaired callers may contact IDEM via the Indiana Relay Service at 1-800-743-3333. Please provide a minimum of 72 hours' notification.

Copies of these rules are now on file at the Office of Air Quality, Indiana Government Center-North, 100 North Senate Avenue, Tenth Floor East and Legislative Services Agency, One North Capitol, Suite 325, Indianapolis, Indiana and are open for public

inspection.

Janet G. McCabe
Assistant Commissioner
Office of Air Quality